## AMERICAN RAILROAD JOURNAL.

## STEAM NAVIGATION, COMMERCE, MINING, MANUFACTURES.

HENRY V. POOR, Editor.

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#### PRINCIPAL CONTENTS.

State Aid to Railroads
Michigan Southern and Northern Indiana R. R.674
Monthly Reports from Railroad Employees675
Baltimore and Ohio Railroad
Blue Ridge Railroad
Stock and Money Market
Accidents on Railroads
New York and Erie Railroad
Railroad to the Pacific-Report of Col. A. G.
Gray 680

#### American Railroad Journal.

PUBLISHED BY J. H. SCHULTZ & CO., No. 9 SPRUCE ST.

New York, Saturday, October 27, 1855.

#### State Aid to Railroads.

While it is the policy of most of the States to ignore all connection with railroad enterprizes, there are a number which have identified themthe population is not sufficiently dense, nor accumulated capital sufficiently abundant to provide tions a policy objectionable under other circumstances. In the Northern States, where abundant actments in most of the Northern States prohibiting them from engaging in any manner, in works of public improvement.

The States now engaged in aiding the constructhe following-

Virginia.-This State contributes to the construction of the following roads as a stockholder-

Alexandria, Loudoun, and Hampshire, Fredricksburg and Gordonsville, Manassas Gap. Norfolk and Petersburg, Orange and Alexandria,

Richmond, Fredricksburg, and Potomac, Richmond and Petersburg, Richmond and Danville, Richmond and York River, Roanoke Valley, South Side,

Virginia Central, Virginia and Tennessee.

The State has also aided in the same manner the construction of numerous turn-pikes. It has the original act: also aided in the construction of the James River and Kanahwa Canal, and railroads not included in the above list. It is also constructing on its own account the Covington and Ohio Railroad as a grand avenue between the Ohio river and the seaboard.

The State subscribes to the amount of three fifths to the capital stock of most of the roads aided by her.

Tennessee .- An act was passed in the Legislative Session of 1851-'2, authorizing a loan by the State of \$8,000 per mile, to be applied exclusively to ironing and equipping the roads named in said selves with them. Of the latter, all are in the act. A bona fide subscription sufficient to grade southern portion of the confederacy. In these, them and provide the cross-ties is required before the loan can be obtained; and a section of thirty miles must be made ready for the iron before the the means for construction. The States must delivery of the first instalment. The balance is come to the aid of the roads, or remain without paid on the completion of successive twenty mile them. The necessity of the case, therefore, sanc- sections. The bonds are taken at par, bear six per cent. per annum as interest, and mature in not less than 30 nor more than 40 years from date of capital exists for all legitimate enterprizes, it issue. They constitute by law a first mortgage would be very unwise and impolitic for States to upon the roads and their equipment. The cominterpose. Such a conviction has led to legal en- pany are required to deposit the interest from time to time in the Bank of Tennessee, fifteen provision was made for assisting works of internal days before it falls due. On the failure of this improvement within this State, in the following the State to be remunerated in full for the bonds a special charter granting State aid, it is made the tion of railroads to any considerable extent are and the interest on the same. In addition to the duty of the State Treasurer to subscribe to the of five years from date of issue, to apply one per subscription is made payable in State bonds at

An amendment to the above was made in the session of 1853-4, increasing the State loan to \$10,000 per mile, besides special appropriations, on the same terms, for the construction of bridges over the Clinch, Holston, Big Hatchie, and Cumberland rivers. The bonds of the Nashville and Chattanoega company were also guaranteed to the amount of \$650,000.

The following were the companies embraced in

Nashville and North Western, Nashville and Memphis, Chattanooga, Harrison, Georgetown, & Charles-

town. Louisville and Nashville, South Western, McMinnville and Manchester,

Memphis and Charleston, Nashville and Southern. Mobile and Ohio, Nashville and Cincinnati, East Tennessee and Virginia, Memphis, Clarksville, and Louisville, and

Winchester and Alabama.

By the amendment of 1853, the same aid was extended to the following works:

Edgefield and Kentucky, Central Southern, Knoxville and Charleston. Mississippi Central and Tennessee, Knoxville and Kentucky. Tennessee, Western, and Charleston, Cincinnati, Cumberland Gap, & Charleston, and Mississippi and Tennessee.

Louisiana.-By an act passed in April, 1858, the roads are to be sold, and from the proceeds manner, viz: When a company shall have received above, each company is required after the lapse amount of one-fifth of their capital stock. This cent. per annum as a sinking fund, to be invested not less than par, bearing six per cent. interest, in the purchase of State bonds, which are to be running 40 years, and deliverable in proportion of surrendered to the Governor and placed to the one dollar to every four actually paid in from credit of the company. In all such cases, the other sources. Should the bonds sell for more State is also entitled to appoint two of the directhan par, the overplus goes toward the payment of interest till the road is able to pay dividends

On the other hand, the State makes provision for the payment of this, so that the company are not taxed with it till their earnings enable them to meet it. The Governor and Senate have authority to appoint three of the Directors. In case the dividends should exceed six per cent., the excess goes to the purchase of the bonds. If the General Assembly at any time see fit by a special law to authorize a loan of bonds to any railroad company, the bonds' are to be issued and provision made to meet the interest charge in like manner as above; while the same law must provide the ways and means for their payment at maturity.

The companies which have availed themselves in this State of the above provisions are-the New Orleans, Jackson, and Great Northern, the New Orleans, Opelousas, and Great Western, and the Vicksburg, Shreveport, and Texas Railroad companies.

In North Carolina the State has begun to encourage several works of internal improvements, by subscription to their stock, or endorsing their bonds to a certain amount. The Railroads to which the State had subscribed, previous to the last legislative session, were-

North Carolin	a Railroad	\$2,000,000
Raleigh and	Gaston "	500,000
Wilmington a	nd Manchester Railr	oad 200,000
16	" Weldon "	400,000

At the last session of the Legislature, bills were passed for assisting the extension of some of the above, and other additional undertakings. In most cases this is to be done by a stock subscription of two-thirds the estimated cost, but in some instances by endorsement. The principal of these

Names.	State Aid.
Atl. & East'n R. R	two-thirds or \$1,000,000
West'n N. C. "	4,000,000
Fayettev'le & Greensb'ro	
Dan River Railroad	
N. Carolina "	. " 833,333
" [ad'l.	1,000,000
Wilmington & Charlotty'	666,667
11 11	Endorse \$8,000 per mile
for that part of the road	

The subscription to the Western road is made conditional, the above amount of stock being taken only when \$2,000,000 shall have been subscribed by private individuals. Payments proceed pari passu? but are limited to \$400,000 per annum for the first two years.

Delaware. - This State has recently contributed a small sum to a road in progress in her bounds.

South Carolina.-This State has aided to a considerable extent the various railroads in her limits. but not in accordance with any general plan, or system. The work to which she has extended the greatest amount of aid is the Blue Ridge railroad now in progress, to which she has subscribed, we believe, \$2,000,000.

Missouri has made provision for works of internal improvement by loaning her credit to the following railroad companies .

Tourse of the company	
Pacific \$	4,000,000
Iron Mountain	1,500,000
North Missouri	2,000.000
Hannibal and St. Josephs	1,500,000

\$9,000,000

The total length of these roads will be, when completed, 1,070 miles. The State take a first mortgage for her loan, which averages \$8,411 per mile.

This statement includes nearly if not quite all the States that have recently advanced money or their credit to railroads. There have been numerous instances of donations of lands to railroad enterprizes. The enumeration of these does not come within the object of this article.

#### Michigan Southern and Northern Indians Railroad.

This company have recently issued a report of their operations and their present financial condition. In the month of February last, full authority was granted by the Legislature of Michigan for the companies owning the several lines then operated together, to form a single corporation. The same privilege had been previously granted by the States of Ohio, Indiana, and Illinois. On the 26th of April, accordingly, the articles of consolidation were finally sanctioned, and a consolidation of the different companies effected, under their present name.

The lengths of the several parts (main stem and branches) of this road will be as follows:

Main and A Come Obligate to Malada

Main road from Unicago to Toledo 2	42 m	nes.
Branch from Adrian to Monroe	36.6	44
Jackson Branch (completed)	22	66
Do. (in progress and nearly		
finished)	10	11
Constantine Branch	4	44
Michigan City Branch	14	66
Goshen Line (completed)	10	66
Do. (in progress)	12	66

Total, completed and in progress .. 450.6 m's The Jackson Branch was to have been 40 miles in length; and its construction was required by the State. Its completion, however, has been stopped by an injunction granted by one of the courts of the State. At present it is in operation as far as Manchester, 22 miles, and is doing a profitable business. Ten miles further will open it as far as Napoleon, leaving a gap of only eight miles to complete it as far as Jackson. This will be built by an independent company under the general law of the State.

The Constantine Branch leaves the main road at White Pigeon. In addition to the four miles owned by this company, eight miles have been built by another organization, whe have it in contemplation to extend it ultimately to Kalamazoo and Grand Rapids. The Goshen line leaves the main stem at Elkhart, Indiana. Its total length will be 122 miles. Ten miles at the western end are already in running order, and for 65 miles west from Toledo the rails are already laid down. Upon 50 miles of the western end the grading was about half completed, but the contractors were unable to prosecute the work with the necessary force, and the contract had, consequently to be cancelled.

About the 1st of June last, this portion was again put under contract, to be completed by the first day of April next, and the work is in pro-The iron is provided and ready, and no effort will be spared to bring this line into use at the earliest reasonably practicable day. This line will be about thirteen miles shorter than the present road between Elkhart and Toledo. It is remarkably level, having no grade over ten feet to the mile, going eastward, and with but four curves in the whole length, and one continuous straight line of seventy miles long.

When this line shall be brought into use, the distance and the time between Chicago and Lake Erie will be essentially reduced; and the business

and economy as can result from such natural advantages, beside rendering the capital invested therein available, and which has been heretofore unproductive.

This company own, jointly with the Chicago and Rock Island Railroad Company, the five miles of road upon which both companies enter the city of Chicago, upon which we have lately graded and laid a track for the separate use of the company; and the other company are laying one for their use—the business of each having so increased as to require this. In like manner, these companies own, jointly, very extensive and valuable grounds in the city, upon which it is proposed, and we now desire, to erect suitable passenger buildings. These are already necessary, and will very soon be so indispensable that they cannot longer be delayed without injury to the companies.

At Toledo the new depot grounds will soon be brought into use, and the whole business at that terminus transferred to them. These grounds are most eligibly situated in the Maumee river, the approach to which will be over a swing bridge, owned and wholly controlled by the company. Here the Cleveland and Toledo Railroad unites with our road, and the ferry heretofore used by that company will no longer be required, as they have erected a substantial bridge, which is now used in prosecuting the various works.

The Wabash Valley railroad comes on to this depot, and the Dayton and Michigan road, now in construction, will terminate here. So also the proposed railroad from Detroit to Toledo will make this its terminus. These grounds are ample, and the connection with the lake navigation offers the best facilities for the exchange of freight and

A large passenger and car house is being built by this company. It is of brick, covered with tin, and will soon be completed. It is 480 feet long and 160 feet wide, and is intended for the joint use of all the companies.

A large union freight house, for like joint use. is to be erected.

We have erected a freight house of brick, with tin roof, 600 feet long and 80 feet wide, with all needful fixtures, which is intended for our lake freight connection.

We are also building two grain houses, with a stationary engine between them, both of which front upon the river, and are intended to store and transfer grain in bulk to vessels. They will hold 400,000 bushels of grain.

The immense produce of grain along our line enders these accommodations indispensable.

We are also building an engine house upon hese grounds which covers eighteen engines. This comprises the buildings necessary at this

Our imperfect connection with the Lake Shore railroad, by means of the ferry, has been often a source of delay, and always of embarrassment. The increase of grain transportation has been so great, that we have been compelled to resort to most of the grain houses in Toledo, and in times of active business we have required so much room there as to be a source of inconvenience both to the town and the company. All this will soon be relieved.

The company own four steamboats on Lake Erie, three of which run in a line between Toledo and Buffalo, and one between the former and Dunkirk. A new boat is to be built the ensuing Winter, in the place of the Empire State, of the Buffalo line, using her engine, and which will be ready to take her place in the line early next

Our business and position require these boats as a part of and in connection with our line. Two of them are first-class boats, and the new one to be added to the Buffalo line will be of like character, and these, when the Goshen line is completed, will give us great advantages in the passage between Buffalo and Chicago. It is believed that no other line can compete, in time and comover it may be transacted with as much facility fort, with this, where the passenger seeks a

By the connection at Toledo with the Cleveland and Toledo railroad and the Lake Shore road at Cleveland, we have a direct connection with New York by the Erie railroad from Dunkirk, and by the New York Central and the Erie, also from Buffalo.

We have direct connections with Philadelphia Baltimore, Pittsburgh, Cincinnati, &c.

From Cleveland to Blairsville a road is in progress, to be completed next year, called the Mahoning railroad, which is of the same gauge as our road and the northern division of the Cleveland and Toledo road. By this line a nearer route will be opened from Cleveland to New York than any existing line, and having a uniform gauge with our road. This connection will be over the Pennsylvania railroad and by way of Easton upon the Delaware river. The saving of distance over this line, as compared with the existing lines, will be about 70 miles less than by the Erie, and about 90 miles less than by the New York

This communication will also be considerably improved by the completion of the Sunbury and Erie road now in progress, securing from New York to the Mississippi a uniform gauge throughout. The various lines already constructed and in progress must always make Chicago, the western terminus of this road, the greatest focus of railroad travel in the West.

During the season, the line of railroad has been much improved. A large number of bridges and culverts, originally of wood, have been replaced at the same rate, the increase will be more than with substantial stone structures. The embankments have been widened and strengthened; the ballasting increased, and the fencing improved. The general appearance of the road, and its capacity for business are also much improved.

The outfit or rolling stock of the company is in good condition, and consists of the following property-

74 locomotive engines, most of which are of first class and in good order.

81 first-class passenger cars.

38 second-class and emigrant cars.

7 baggage and mail cars.

18 baggage cars.

722 freight, covered platform, and cattle cars.

145 grave! and dump cars.

All these, except the last, are eight-wheel cars In the construction of the road, and as the work advanced from time to time, it became necessary to make several issues of bonds, some of which were secured by a mortgage upon one part of the road and some upon another. Some were issued by the Michigan Southern railroad company, and some by the Northern Indiana railroad company and there came to be thus seven sets of bonds of these companies, amounting in the aggregate to the sum of \$5,500,000.

When the consolidation of these companies was effected, and their individual separate existence merged in the present corporation, it was deemed desirable to consolidate these securities, and to substitute therefor the obligation of this company,

which is, of course, bound to meet them.

In looking forward, it was found that an additional sum of money would be required to complete the works in progress, and to place the road upon a proper basis. It was also obvious that the business would soon require a double track from Elkhart to Chicago, a distance of 100 miles. siring to place the bonded debt against the company upon the strongest basis as to security, to provide a sinking fund for its redemption, to secure every part of the debt alike, and to provide the means for the completion of the work, and for the double track above mentioned, the directors determined as follows

To make a mortgage upon the whole line of the

sage upon the lakes as a part of his line of railroad, with its appurtenances, to secure the bonds to be thereafter mentioned, in exchange for the present outstanding bonds of the company, as they may, from time to time, be surrendered, to the amount of \$5,500,000, or to raise the money to pay so much as may not be so surrendered.

The further amount of not exceeding \$1,250, 000, to pay the floating debt of the company and to complete the Goshen line and the Jackson branch.

The further sum of \$1,250,000, for the purpose of making a double track upon such part of the line as may be found necessary, which last am'nt is not to be issued before the first of May, 1857, and not until an equal amount shall be added to the stock of the company, so that the amount of the bonded debt, secured by mortgage, shall not exceed the paid capital of the company

Under this provision, a mortgage to the amount of \$8,000,000 has been executed to a trustee for the foregoing objects, and the same has been re-corded in the several States through which the

railroad extends.

The bonds run for 30 years, and a sinking fund is established that will meet the principal of the bonds at maturity. They will soon be ready to be exchanged for those now outstanding, and for which exchange we have already numerous applications.

The earnings of the road for the first nine months of the present year have been. \$1,784,439 Corresponding period in 1854. . . . . . . 1,480,915

Increase .... \$303,524

Should the remainder of the year advance only \$100,000 beyond the above. The receipts in 1853 were \$1,573,181; and in 1854, \$2,158,311. Those of 1855 will doubtless considerably exceed \$2,-500,000.

General Statement of the Michigan Southern and Northern Indiana Railroad Co., July 31st, 1855. Construction, including Goshen Air

	Line and Jackson		
	Branch\$	9,522,199	37
Do.	Erie & Kalamazoo		
	Railroad	361,466	68
Equipment	• • • • • • • • • • • • • • • • • • • •	1,343,085	44
		418,457	.10
Materials of	n hand in store and		
shops	**** **** **** **** ****	256,567	24
	ls, and mortgages	712,075	32
Cash in bar	nk, and in hands of		
cashier an	d agents	291,166	71
Capital stock			*
	idend stock.\$4,082,600		
Constructi			
		6,928,900	00
Bonds-			
Michigan	Southern		

mortgage, 1860\$	1,000,000		
Do. bonds of 1863	500,000		
Do. income, 8 per ct.			
1857	500,000		
North'n Indiana mort-			
gage, 1861	1,000,000		
Do. bonds of 1863	500,000		
Goshen Air Line of			
1868	1,500,000		
Jackson Branch of			
1865	500,000		
_		5,500,000	00
Erie and Kalamazoo R. R.	bonds of		
1862		300,000	00
Due State of Michigan in D	ecember,		
1855		25,000	00
Bills payable		319,454	59
Dividends unpaid		20,034	69

1st, after payment of dividend ... 87,785 46 Total .... \$13,248,124 17 tor.

52,815 57

Interest on stock and bonds unpaid

Balance income account to July

Sundry balances of account ....

The System of Monthly Reports for

BY THOMAS D. STETSON, M.E.

Assuming ignorance to be the fundamental difficulty in the way of efficient and economical management of great roads, the method lately adopted on the New York and Erle railroad is worthy of close attention if not more general adoption. The fact, that there has been elaborated and put in operation a novel system of careful supervision is sufficiently well known, although few even among those most directly interested are allowed to recognize its existence except in its results. The monthly reports and their effects in stimulating the zeal of employees of every grade as also in sharpening the vigilance of all in any way connected for the time with the details of the machinery, are but a portion of the fruits of a great system, the details of which it is our present purpose briefly to present.

The plan involves on the one hand a very considerable amount of extra trouble and expense. among which is that of measuring and charging fuel for each locomotive, preparing concise but detailed and daily reports on the part of each conductor and station agent, paper and printing, and more than all the maintenance of a large office with eight active clerks, but, on the other hand, it faithfully depicts in the general office every fact of practical importance to the management.

Ignorance alone is a sufficient answer to many of the complaints of incompetency or fraud. There is no stand point from which the operations of the road may be viewed. The line is in every case long and crooked, literally as well as figuratively, and no one man can know and control its movements. The superintendence is portioned out among men who are in fact responsible to no one. The head has few opportunities to inform himself of the good or bad management beneath him. Occasionally, perhaps daily, he rides over some portion of the road stopping at stations and talking authoritatively. Every capable man feels conscious of his superior knowledge of his own department. The superintendent is reduced to mock inquiries, indiscriminate fault-finding, or general praise. He is working blindfold, and the moral effect on both himself and his men is enfeebling. Every dispute is a question of judgment between himself and others better informed.

The policy on the Erie road is the reverse of this in almost every respect. While each man is intrusted distinctly with a share of responsibility, the presence of the general head is everywhere felt to observe the result. The superintendent knows the capacity and daily use of every engine on the road; he has at hand the position of every car, the pounds of freight in each train, the average speed between any two stations, the delay at each and the freight handled, cars switched or train waited for. He knows the proportion of dead weight to useful load in every case, and to whom belongs the credit of every expedient for reducing it. He sees every car standing idly at a station, and whether loaded or unloaded; knows every conductor refusing freight, and whether or 14,133 86 not the emergency justified him in doing so; in short makes each man independent of the good or ill will of every other, and responsible only to one legitimate and as far as possible omniscient direc-

A daily report is received at the office from each conductor, and also from each station-agent on the line. Both reports mention the cars taken and left at each station, and the time of stopping and starting: thus these reports check each other. and correct the disposition to loiter at stations and run at a wasterul speed with a light load to make up the time. The agents alone report the weight of freight charged, the number and condition of cars on hand, the number and kind wanted, and the fuel or other material charged to engines while the conductor alone reports the delays between stations with names of parties in charge.-Reports are sent from each station by the first train after mid-day, the particular train being specified by general order. Reports from conductors are by first train after arrival, and their recep. tion is counted on with precision. Cars are designated briefly by numbers :- a simple number indicates a box car, one line beneath indicates a flat two lines a cattle car, and an additional line above any number indicates that the same is "empty."

With an equipment of 3000 freight cars, if one half only are in motion, and of this portion half are running empty in either direction, only 750 are in legitimate use. If by removal of freight on the journey many of the latter are run partly filled, he amount of stock lying idle and of dead weight in process of useless transportation, assumes a place of great practical importance. The results of the new system, so far as have yet been manifested, are made sufficiently patent in the monthly reports alluded to. The method has been practiced about one year, and a small degree of progress has been exhibited each month over the last. How high a degree of economy of fuel may yet be realized in transporting, few will dare to predict. The Cornish miners, by a system of published reports of their engines, reduced the cost of pumping nearly 75 per cent. in 20 years, and this without introducing any new invention. indicates that the best modern steam engines utilize but about 5 per cent. of the absolute power of the heat in steam, while the daily comparison of locomotives shows a marked difference in approximating even to this low standard.

#### Blue Ridge Railroad.

OFFICE OF THE BLUE RIDGE R. R. Charleston, Oct. 10th, 1855.

To H.V. Poor Esq., Editor of the AM R.R. JOURNAL. On my return from the mountains some days since my attention was arrested by an editorial notice of the Blue Ridge Railroad in your Jour-NAL of the 8th of September, in which it is stated that "in Georgia all but six miles is under contract, and advancing steadily." That "in the tunnels through the Blue Ridge the work is progressing satisfactorily. More than 1,700 feet have been cut in the Western tunnel, and nearly 1,600 feet in the Eastern, of which 77 feet have been cut in the last week. There are wet 1,000 feet to finish, when daylight will shine through the Blue

Now, Mr. Editor, there are errors in this statement which I cannot permit to have the sanction of my silence, and which I deem it a duty to correct.

Ridge.

The facts are these. The approach to the tunnel on the West, a heavy work, is nearly finished. but the tunnel itself has not been commenced on

the tunnel is finished, and the tunnel entered some 80 to 100 feet, leaving about 5,700 feet to be finished, before "daylight is seen through the Blue Ridge," instead of 1,000 feet, as stated in the JOURNAL. It is an error also that 77 feet have been cut in the last month, and that all but six miles in Georgia is under contract; but the last is a small matter, and scarcely deserves to be noticed, as the work in that State, although costly in some portions, presents no serious difficulties.

You will, no doubt, agree with me, Mr. Editor, that no great public work, or private enterprise can be permanently advanced by the circulation of erroneous statements in relation to it. And as relates to the one in question, so important as t is to a section of country extending from the South Atlantic seaboard to the distant regions of the West, the completion of which is rendered certain by the aid which it has received, all departures from the facts connected with its pro gress, to commend it to the public notice or favor are wholly unnecessary. Tunnels in our day are no longer obstacles to the construction of railroads, more especially where the grade of the road may be reached by an indefinite number of of shafts. This is the case with ours, and although little progress has been made with it, because there never has been an organized force, or an engine put upon it, yet we indulge the hope that we shall very soon be enabled to confirm all that you have stated in anticipation.

I am very respectfully

Your Ob't S'v't

H. GOURDIN, Pres't.

We publish the above correction with pleasure: although our satisfaction would have been greater to learn that the work was nearer completion. The statement in question was the substance of an article which appeared in some of our Southern exchanges about that date. We cannot give the name of the paper at present; as the number from which it was taken has long since gone the way of all-newspapers.

We shall be pleased to hear of the further progress of this important work. And as it appears that local journals cannot always be implicitly relied upon, we would suggest the propriety of some of the officers themselves occasionally furnishing facts in relation to the progress of such works.

#### Baltimore and Ohio Railroad.

The report of this road for the year ending the 30th ult., was read at the annual meeting of stockholders on the 4th inst. The business for the year was as follows:

Statement of the Revenue Earned by the Baltimore and Ohio Railroad Company from the 1st of October, 1854, to the 30th Sept., 1855.

		MAIN ST	EM.	
		Pas'grs.	Freight.	Total.
October,	1854.	\$55,015	\$267,611	\$322,627
Nov.,		52.595	263,987	316,583
Dec.,		42,635	220,484	263,119
January	1855	39,819	295,788	335,608
Feb'y		80,076	154,782	184,858
March.		54,229	280,231	334,461
April,	46	57,839	278,427	336,267
May,		54,721	296,426	851,141
June.		50,404	290,561	340,966
July,	**	51,278	219,074	270,347
August,	"	58,120	257,205	315,325
Sept.,	"	61,566	278,572	340°139

	WASHIN	GTON BRA	ANCH.	TO SHE SHOWE SHE
October,	1854	\$28,876	\$8,106	\$36,982
Nov.,	"	23,657	7,437	31,094
Dec.,	"	22,124	7,770	29,894
January,	1855	25,583	9,020	34,603
Feb'y,	"	22,498	8,942	31,440
March,	"	26,895	9,098	35,993
April,		23,721	8,619	82,841
May,	"	25,928	8,282	34,219
June,	"	23,673	7,143	30.817
July,		24,725	6,332	31,058
August,	"	27,168	8,994	86,163
Sept.,	"	28,690	9,843	88,033

Total .......... 303,544 \$99,090 \$402,635 Summary for both Roads during the fiscal year end-

Pas'grs. Main stem\$608,299 Wash. Br 303,544	Freight. \$3,103,154 99,090	Total. \$3,711,453 402,635
\$911,843	\$3,202,245	\$4,114,088

A comparison of the revenue here exhibited with that of the previous year, shows an increase on the main stem of \$65,844 42, and on the Wash-ington branch of \$33,405 46. Total increase of revenue, \$99,249 88.

From the above it will be seen that that the passenger earning on the Main Stem were 16.4 of the gross receipts. The increase to the revenue was about seven per cent., which is certainly satisfactory, considering the diminished business that offered itself last year, in the transportation of agricultural produce fram the West. The increase has arisen from through travel of which the road has received a considerable amount from the opening of the Ohio Central Railroad. There has also been a slight increase in general freight. This it is believed, would have been much larger, but for the severe winter season of last year, during which the Ohio river was closed for an unusually long time. Interruptions was also experienced at the Kingwood tunnel-one of ten days and another of two or three weeks. The cost of these delays has been estimated at over \$100,000.

THE COAL TRADE.

The following table shows the quantities of coal transported during the year from Cumberland, Piedmont, and Fairmount, and also the quantity from each place delivered at Locust Point, in the city, and at way stations respectively.

Statement exhibiting the quantity of Coal transported during the year ending 30th Sept., 1855.

П	Point of	Deliv'ed	Deliv'd	Deliv'd
	depar-	at Locust	in the	at way
1	ture.	Point.	city.	stations.
		Tons.	Tons.	Tons.
10	dumberland	170,053	29,108	
	Piedmont		26,098	15,233
	Fairmount		15,214	1,046
	Total	382,166	70,421	19,339
1	Point of	Fo	r com-	Total de-
	depar-	pa	ny's	liv'd f'm
1	ture.	1	ise. e	ach reg'n.
1		7	rons	Tons.
10	umberland	1	8,165	215,387
				260,611
				63,790
1		-		
1	Total		7,861	539,788
13	he quantity fr	om those point	s which pa	aid
	freight was			461,927
I	ouring the pres	vious year		463,423
	_			
1	Decrease-	tons		1,496

Though there was a slight decline in the quantity carried during the year, the revenue to the company was larger, as an increase to the tariff that side. On the Eastern side, the approach to Totals .........\$608,290 \$3,108,154 \$3,711,453 of rates was made early in the season. The coal

\$195,281 76

Bridges.... Water stations....

24.085 26

13,084 94

35,811 16

	AME
fromFairmount has proved an exceller	t article for
making gas. The business in transpo	rting coal is
expected to increase extensively in the	me to come.
New mines, said to be rich in bitumen	have been
struck at Newburg and Tunnelton.	
from coal during the year has been as	
From Cumberland Piedmont	534 848 56
Fairmount	223,537 99
" Newburg	
" Wheeling	
	,223,011 95
Showing an increase over the previ-	ous year of
\$88,383 <b>4</b> 9.	
The receipts of flour from the differ	ent stations
on the line were—	
Stations.	No of bbls.
Ellicotts's Mills	47,947
Frederick	154 560
Harper's Ferry	18.187
Cumberland	447
Moundsville	15,654
Wheeling	129,322
From other points on the main line	167,192
Washington Branch	37,428
Total	570 748
EXPENSES OF OPERATING.	11 of the
The following is a statement in deta	in or the ex-
penses of transportation on the Main S	stem during
the year:	
Expenses of Transportation on the M	ain Stem.
To Agents and clerks	\$49,641 95
Tonnage, conductors, and brake- men	118,483 04
Passenger conductors and brake-	110,100 01
men	24,468 38
Tonnage enginemen	95,596 38
Passenger "	21,441 50
Tonnage firemen	54,121 89 10,399 35
Tonnage teamsters	13,768 14
Passenger "	3,214 44
Depot laborers, loading and unload-	
ing cars	63,657 64
Depot laborers, preparing fuel Maintenance of stock and renewal	32,722 31
of harness	30,499 72
64,720½ gallons oil	56,563 01
80,100½ pounds tallow	9,880 44
109,631 " waste	9,798 61
36,853½ cords wood	65,974 08
Carried forward	\$660,230 88
Broughtforward	\$660,230 88
To 74.738 12-20 tons coal	73,251 52
Stationery, printing and advertis-	40.000
ing	10,087 91
Gas, rent; candles, and Etherial	10 969 29
Cleaning engines	10,868 53 51,581 26
Discount on Uncarrent money	28 57
Miscellaneous and contingent	12,099 38
Sawing and loading wood on line	
afroad	7,277 19
Western agencies	8,492 01
Telegraph operators	6,276 63 713 55
Water carriers	110 00
	\$840,907 42
From this table it appears that the	
transportation have been less than	-
previous year by \$31,898 09, or whe	
with the reverse and asset of whe	o lost
with the revenue and expenses of the	e last year,
it shows a reduction of 5,8 per cent.	
The other expenses of the year ha	ve been as
ollows ·	

ME	RICAN CAILROAD J
icle for	Stationary machinery
coalis	" Railway
come.	" Bridges
re been	Water stations
revenue	Watching Bridges
ows:	" Cuts
240 94	" Tunnels
848 56	Pumping water
537 99	General expenses
930 14 454 32	Discount on uncurrent money
101 02	Losses by accidents, &c
011 95	\$1
rear of	Expenses of transportation
tations	\$2 \$2
	Revenue
of bbls.	Ratio of expenses to revenue, 56.86
47,947 79,304	The number of loaded cars haule
54,569	streets of the city during the year is
18,187	the cost of maintenance of stock and h
447	bably chargeable to this work, has be
15,654 129,322	96. The cost per car is therefore \$2
67,192	The company had on hand, at the c
37,428	year 23,055 cords of wood and 1,445 to
70 740	The average price of the former paid
70,748	year was \$1 79. In the previous
	\$2 03.
the ex-	WASHINGTON BRANCH
during	The business of the year shows an
~.	\$25,242 from passengers, and from free
Stem. 641 95	The number of through passengers for
041 00	was— From Baltimore to Washington
483 04	" Washington to Baltimore
400 00	,,
468 38 596 38	
441 50	Southern travel and through tickets Passengers Southward19
121 89	" Northward
399 35 768 14	-
214 44	m + 1 11 h
	Total through passengers
657 64	It will be observed that the number
722 31	gers between Baltimore and Washin
499 72	than during the previous year; that
563 01	of Southern through passengers is great
880 44	aggregate of through passengers is a
798 61 974 08	than during the last year. This is ac
011 00	by the short session of Congress last
230 88	the prevalance of the yellow fever at 1
230 88	Portsmouth which drove the southern
251 52	the usual lines of steamers passing by
087 91	places.
	Expenses of Transportation—Washing To Agents and clerks
868 53	Tonnage conductors and brakemen
581 26 28 57	Passenger "
099 38	Tonnage enginemen
	Passenger do
277 19	Passenger do
492 01 276 63	Tonnage Teamsters
713 55	Depot laborers, loading and unload
	Depot laborers, preparing fuel
907 42	Maintenance of stock and renewa
enses of	of harness
ng the	632 gallons oil
mpared	2,514 pounds tallow
t year,	4,221½ cords wood
	912 1-20 tons coal

" Fairmount	General expenses
" Newburg 930 14	Legal do
" Wheeling 454 32	Losses by accidents, &c
\$1,223,011 95	
Showing an increase over the previous year of	\$1,269,455 88 Expenses of transportation 840,907 42
\$88,383 49.	Expenses of transportation 340,007 42
The receipts of flour from the different stations	\$2,110,363 30
on the line were—	Revenue\$3,711,453 85
Stations. No of bbls.	Ratio of expenses to revenue, 56.86 per cent.
Ellicotts's Mills	The number of loaded cars hauled into the
Frederick	streets of the city during the year is 21,186, and
Martinsburg	the cost of maintenance of stock and harness, pro-
Cumberland 447	bably chargeable to this work, has been \$44,344
Moundsville	96. The cost per car is therefore \$2 091.
From other points on the main line167,192	The company had on hand, at the close of the
Washington Branch 37,428	year 23,055 cords of wood and 1,445 tons of coal.  The average price of the former paid during the
Total570,748	year was \$1 79. In the previous year it was
	\$2 03.
EXPENSES OF OPERATING.  The following is a statement in detail of the ex-	WASHINGTON BRANCH
penses of transportation on the Main Stem during	The business of the year shows an increase of
the year:	\$25,242 from passengers, and from freight \$8,162.
Expenses of Transportation on the Main Stem.	The number of through passengers for the year
To Agents and clerks	was-
Tonnage, conductors, and brake-	From Baltimore to Washington\$89,962
Passenger conductors and brake-	" Washington to Baltimore 87,419
men 24,468 38	177,381
Tonnage enginemen 95,596 38	Southern travel and through tickets:
Passenger "	Passengers Southward19,421
Tonnage firemen	" Northward
Tonnage teamsters	37,346
Passenger " 3,214 44 Depot laborers, loading and unload-	Total through passengers214,727
ing cars	It will be observed that the number of passen-
Depot laborers, preparing fuel 32,722 31	gers between Baltimore and Washington is less
Maintenance of stock and renewal	than during the previous year; that the number
of harness	of Southern through passengers is greater, and the
80,100½ pounds tallow 9,880 44	aggregate of through passengers is also smaller
109,631 " waste 9,798 61	than during the last year. This is accounted for
36,853½ cords wood	by the short session of Congress last winter and
Carried forward \$660,230 88	the prevalance of the yellow fever at Norfolk and
Broughtforward	Portsmouth which drove the southern travel from
To 74,738 12-20 tons coal	the usual lines of steamers passing by way of these
Stationery, printing and advertising 10,087 91	places.
Gas rent: candles, and Etherial	Expenses of Transportation—Washington Branch. To Agents and clerks
oil 10,868 53	Warness conductors and hyaraman 0 147 10
Cleaning engines	Passenger " . 6,051 57
Miscellaneous and contingent 12,099 38	Tonnage enginemen
Sawing and loading wood on line	Passenger do
af road	Passenger do
Western agencies	Tonnage Teamsters 1,396 10
Water carriers	Depot laborers, loading and unload- ing cars
#040 007 40	Depot laborers, preparing fuel 1,518 53
\$840,907 42	Maintenance of stock and renewal
From this table it appears that the expenses of transportation have been less than during the	of harness
	014 05
previous year by \$31,898 09, or when compared with the revenue and expenses of the last year,	18,328 " cotton waste 1,652 93
it shows a reduction of 5,8 per cent.	4.2211 cords wood
The other expenses of the year have been as	912 1-20 tons coal
follows:	ing 1.626 44
Repairs of Locomotives\$302,376 93	Gas rent and candles
" Burden cars 142,344 85	Cleaning engines
Passenger cars 35,077 64	Miscellaneous and contingent 340 35
,	111

Depot	rent:	 	 		10,000	00
				-		

As compared with those of last year, there is a 6,994 06 reduction of \$3,967 38, or when the revenue and 32,973 00 expenses are compared, the reduction is equivalent 4,016 75 to 13 per cent.

8,481 64 The other expenses have been

The other expenses have been :		
Repairs of railway	\$67,938	54
" bridges	55,528	10
1 II donote	440	57
Water stations	2.038	83
Pumping water	780	
Repairs of locomotives	9,701	20
" passenger cars	14,911	59
burden do	8,835	66
General expenses	5.836	47
Losses by accident	630	
	116,589	89
Add expenses of transportation	78,691	87

Revenue, \$402,635 07.

Ratio of expenses to revenue, 48.5 per cent.

GENERAL RETURN OF CASUALTIES.

During the past year there have been many ca-sualties on the road, involving loss of life and damages to limbs. In the great majority of in-stances they have resulted from the carelessness of the parties who have suffered. For the first time an accurate record has been kept at this office of all occurrences of the kind during the tht \$8,162. year.

The whole number of sufferers by these casualties is found to have been sixty-one. Of these, thirty-six were instantly killed or fatally injured. Twenty-five persons received injuries more or less severe, but from which they have recovered, five have lost an arm or leg, and one both legs.

Of the entire number killed or injured, but two

were passengers. Forty-six were employees; and the remaining thirteen were neither passengers or employees. Both the passengers were killed by their own carelessness, and by a direct violation of the rules of the service-one, in attempting to get on the train while in motion, and the other (a black boy) by occupying the platform of the baggage car in attempting to avoid payment of his fare.—

Of the employees six were killed or injured while violating the rules of the road, fifteen by their own ter, and the carelessness, ten by violating the rules of want of care by others, fifteen by pure accident. Of the so smaller thirteen persons, neither passengers or employees, counted for eleven were killed or injured while walking or lywinter and ing upon the track, and the other two by attempting to jump upon tonnage trains while they were in motion. Of the whole number, seven at least are ravel from known to have been intoxicated at the time of their injury or death.

It will be seen from the above that the ratio of casualties as between employees and all others is as three to one. The analysis also shows, however, that but one in three of these results from real 2,141 12 accident, and that fully two-thirds of them are 1,440 69 to duty to duty.

#### Steubenville and Indiana Road.

1,396 10
Vigorous measures, says the Ohio State Journal, are being taken to put this road in proper condition to make it efficient. We are glad to see that 1,518 53 the Philadelphia Board of Trade look upon the route as one of much importance to that city .-5,076 64 the subject was recently brought before that body, 565 26 and they passed a resolution approving of the 314 25 plan of raising \$250,000, to stock the road and 1,652 93 put it in complete order. They strongly urge 12,707 71 upon the business men of Philadelphia the impor-2,734 70 tance of coming forward promptly and subscribing this sum. It will no doubt be raised, as these 1,626 44 men comprehend the importance of this road to 1,290 of the interests of their city. Columbus & Cen. Ohio 2,158 15 have an interest in this road, and we are glad to see 340 35 this evidence of its prosperity and usefulness.

Railway Share List,

Compiled from the latest returns—corrected every Wednesday—on a par valuation of \$100.

NAME OF COMPANY.	L'ngth of Road.	Capital paid in.	Debt.	Total cost of road & equip't,	Gross Earnings for last official year.	Net Earnings for do.	Dividend for do.	Price of Shares.	NAME OF COMPANY.	L'ngth of Road.	Capital paid in.	Debt.	Total cost of road & equip't.	Gross Earnings for last official year.	Net Earnings for do.	Dividend for do.	Price of Shares.
Atlantic & St Lawrence		1,538.100			470,647 190,605	90,797	6 none	72 18	Alabama and Tennessee Memphis and Charlest'n	168	2,103,177	958,275	In progr. 3,563,362	176 484	102,016		
Androscog, & Kennebec Androscoggin	20	642,343 91,192	1,473,080 232.193	2,245,020 843,317	29,396	12,807	none	10	Mobile and Ohio	527	2,300,000	1,310,666	3,666,991	In progr.			
Kennebec & Portland	72 51	1,160,319 1,367,000	1.683 384 119 237	2,843,705 1,486,327	208,568 259,330	114,069 124,038		90	Miss. Central N.O., Jackson, and G. N	188	642,534	bone	628,303	In progr. In progr.			***
ortl., Saco, & Portsm'th loston, Conc. & M'ntreal	93	1,808.093	1,059,512	2,771,310	233,234	120,834 131,015			N.O., Opelousas & G.W.	350		476,143	1,825,812	In progr.			
heshire	53 85	2,083,825 1,485,000	946 919 none	3,181,997 1,412,576	372,892 329,744	158,632	8	88	Vicksb., Shrevep. Tex East Tennessee and Ga	111	30,670 1,000,000	1,500,000	2,500,000	In progr. 81,590	48,103		
Vorthern, N. H	82	2,768,400	none	3,016,633	370,529 162,687	138,299 55,173	2½	38%	East Tennessee and Va	131	624,825	536,593	1,015,201	In progr.			
Conn't & Passumps.Riv Rutland & Burlington	120	1,048,145 2,233,376	787.608 2,662,396	1,780,062 5,378,428	394,971		none		Nash, and Chattanooga Covington & Lexington	93	2,319,330	1,497,081	3,843,694		112,177		29
Termont Central	117	5,000,000	3,550,236	8,463,366	820,119 442,491	214,798 104,175		60	Lexington and Frankfort	29	431,091	159,299	635.363		34,364		
loston and Lowell loston and Maine	83	1,830.000 4.076.974	300,510 150,000	2,158,932 4,179,535	906,790	421,561	8	87%	Lexington & Big Sandy Lexington and Danville		540,117	61,525		In progr. In progr.			
lerkshire	74	600,000	none	600,000 3,310,948	102,352	42,000 42,335		2	Louisville and Frankfort Atlantic & Gt. Western	65	698,236 866,939	669,061 77,294	1,589,566	244,014 In progr.	96,902	6	
Soston and N.Y. Central Boston and Providence,	55	2,234,600 3,160,000	1,200,000 421,700	3,611,821	272,347	100,078	3	65 1/2	Bellefontaine and Ind.	118	1,881,598	1,260,612	2,805,821	238,010	114,592	none	
loston and Worcester	68 52	4,500,000 1,591,110	587,553 254,043	4,856,370 1,802,244	952,894 277,770	342,139 102,942		87½ 53	Cleveland and Erie Clev., Col., and Cincin	95	4,473,721	374,127	4,546,133	1 162 601	557,905	9	104
lonnecticut River	60	2,583,400	2,850.325	4,447,459	730,269	346,425	7	50	Clev., Zanesv., and Cincin	87							
ssex	20 67	299,107 3,540,000	469,311 334,992	747,008 3,730,965	51,246 704,638	none 272,716	none 6	76%	Cleveland and Toledo Clev. and Mahoning	103	2,675,425	2,689,301	5,124,629 628 533	736,272 In progr.	396,986	10	73
itchburgitchbig and Worcester	14	238,140	74,099	333,884	42,647	19,274	6		Clev. and Pittsburg	133	2,686,770	2,516,162	4,818,153	450,215	255,868		60
lowell and Lawrence	12 14	200,000 600.000	140,000 16,000	363,658 654,603	56,135 191,887	23,823 55,877	8	88	Cin., Hamilt'n & Dayton Cin., Wilm. & Zanesv'e	131	2,100,000 1,120,450	1,464,364 1,131,265	2,961,978 2,326,459				33
. Bedford and Taunton	21	500,000	none	533,953	198,491	56,533 4,666	6%		Col., Piqua, and I dian	72			*******		100.010		
ld CoPy and Fall River	87	137,260 3,015,100	154.554 314,834	287,413 3,434,164	32,677 649,656	142,800	6	89 1/2	Columbus and Xenia Dayton, Xen., & Belpre	63	437.838	311,032 422,658	1,440,447 860,496	In progr.	168,949		92
ittefield & N'th Adams	18	450,000	none	413,677	50,895 275,523	25,519 56,383		ii	Dayton and Michigan	140	1,076,602	393,011	1,185,826	In progr.			22
Vermont and MassVestern, Mass	155	2,232,540 5,150,000	1,046,626 5,689,520	3,207 867 9,953,258	1,763,944	718,703	7	90	Eaten and Hamilton Little Miami	65	448,411 2,963,921	835,994 1,171,785	1,345,573 3,648,172	113,859 681,562			96
Vorcester and Nashua	46	1,141,000	218,244	1,394,708 1,843,332	209,118 316,616	82.959 131,312		49	Mad River and L. Erie Ohio Central	205	2,451,650	2,572,932	4,446,661				26 34
rov'nce and Worcester Iartford and N. Haven	43 72	1,522,200 2,359, 00	351,500 939,000	3,313,932	730,012	352,799	10	127	Ohio and Penn		1,520,927 2,451,700	3,485,076 3,219,000	5,670,700	Recently 1,111,626	662,117		80
lart'd, Prov. and Fishkill	120	1,899,115	1,719,567	3,730,551	166,212 330,792	94,192 18 351			Pittsb'g, Maysv'e & Cin	50			343,882	In progr.			
lousatonic	110	2,000,000 1,031,800	474,177 573,995	2,429,066 1,577,167	238,266	none	4		Sand'y, Mansf & New'k Scioto & Hocking Valley	135	1,350,000 403,975	2,206,357 509,050	3,552,357 888,858	In progr.	164,479		
York and N. Haven	62	2,992,000	2,252,647	4,980,407 1,450,318	906,018 103,986	335,611	none	36	Springf., Mt. Vernon & P Tol., Wabash & St. Louis	113	1.000,000	950,000 4,530,000		In progr. In progr.			
London, W. & Palmer	66	738,258 608,600	735,165 1,007,826	1,527,827	137,060	3,717	none		Cin., Log, and Chicago	255		1,006,125	2,080,433				12
orwich and Worcester	66 100	2,122,300	796,886 1,402,244	2,596,488 2,597,963	304,651 123,147	95,456 50,752	none	32	Evansv'e & Crawfordsv Ind. and Cincinnati	170	814,000	725,000 1,442,859		356,012	193,142	7	62
suffalo, Corn. and N. Y Suffalo and N. Y. City	92	1,482,766 798,439	2,587,849	3,401,868	254,770	52,030	none		Indiana Central	66	1,213,723 608,829	1,251,387	2,178,461 1,669,090	321,400			02
suffalo and St. Line	81	1,300,000 687,000	1,030,000 531,318	2 343,849 1,093,624	507,618 120,849	264,855 58,589			Ind., Clev. & Pittsburg Jeffersonville	83	834,157 1,014,252	1,101,971 694,000	1,671,544	206,544	94,318	none	
ludson River	144	3,757,891	8,933,804	12,391,363	1,753,986	603,010	none	34%	Lafayette and Indianapolis.	64				200,033			
ong Island	534	1,875,148 23,067,415	626,958 11,947,121	2,518,261 35,907,374	279,520 5,918,334	102,657 2,830,293		27 91%	Madison and Indianapolis New Albany and Salem	288	1 647,500 2,535,121	1,589.881 5,281,°48	3,237,381 6,643,189	645,827		none	
New York Central New York and Erie	464	10,023,958	25,126,669	33,439,431	5,351,037	2,806,026		52%	Peru and Indianapolis	73		858 314		150,000	90,000	none	
New York and Harlem.	13a 119	5,716,050 1,611,527	3,527,595 4,522,413		942,394 518,527	154,854 145,733			Terre Haute and Ind Chicago and Rock Isl'd		924,100 3,141,500	456,000 2,387,155		239,992 In progr.	159,323		91
Northern, N. Y Oswego and Syracuse	37	374,920	219,594	677,754	106,764	53.380 76,327			Chicago and St. Louis	220				1,077,312			
Consselaer & Saratoga aratoga and Washing'n	25 54	610,000 899,900	140,000 1,053,234	888,182 1,891,993	231,348 183,959	37,666	none		Chic., St. Paul & F'd du Lac. Galena and Chicago	298	2,300,000 4,334,800	1,325,000 1,189,304		In progr.	942,231	17	116
yracuse & Bingham'n	71	731,614	1,118,751		Recently 152,648	opened. 66,407	none		Illinois Central	707	1,419,440	18,001,426	17,698.099	In progr.			95
Froy and Boston Watertown and Rome	97	439,492 1,370,428	493,500 854,768	1,107,873 2,040,543	393,954	152,752	5	70	Peoria and Oquawka Ohio & Miss. (Wst.Div.)	147	569,889 1,780,295	818,454 3,292,403		Recently			
Selvidere and Delaware	50 94	1,000,000	1,177,376	2,177,376	124,301 1,682,486	44,825 552,456		128	Terre Haute and Alton Detroit and Milwaukee	173	2,281,420 838,000	1,256,000 1,128,964	3,537,424	In progr.			
Jamden and Amboy Jamden and Atlantic	60	1,500,000 240.125	1,269,223	4,763,184 1,499,185	69,673	61,760	none		Mich. Central	282	6,021,916	6,142,023	1,966,969 10,300,147		879,656		96
lew Jersey	31 75	3,253 925 2,000,000	798,596 1,632,085	4,306,338 3,506,226	824,032 378,145	440,447 180,796		124 ½	Mich, South'n & N. Ind Green Bay, Mi. & Ch	475	6,928,900 764,075	5,768,000 442,726	1 193 765	2,410,000 In progr.	875,000		97
lew Jersey Central	62	1 155,715	351,500	1,549,622	233,596	99,377	-0		Milwaukee and Miss	200	988,665	1,827,584	2,704,593	465,051	307,632		
lumberland Valley	100	1,184,500 2,865,175	28,411 1,865,897	1,212,911 4,140,365	In progr.			75	Milwaukee & Watert'n Milwaukee and Horicon			132,000		In progr. In progr.			
Del. Lack. & Western Erie and North East	20	600,000	150,000	750,000			10		Milwaukee & La Crosse	69				In progr.			
Iarrish'g & Lancaster	38		********					481/2	Racine and Miss Hannibal & St. Josephs				********				
ittle Schuylkill Vorthern Penn Pennsylvania				2,600,000 17,158,495	0.400.700	1 077 500			North Missouri	228			344,896	In progr.			
ennsylvania	96	0.214.072	10,244,442	18,464,114	3,781,639	2,140,429	10	87 ½ 91	Pacific	79	1,866,292	94,391	4,270,000 186,115	In progr. In progr.			
hil. Wil, and Baltimore	98	5 000,000	3,069,723	7,452,062	1,006,638	353,573	3	24 55	Panama	49	3,743,000		6,564,852	628,850	416,756	936	103
hil. Germ. & Norrist'n	38				244,000	140,592		83	T	I. S.	GOVERN	MENT SE	CURITI	ES.			
hila. and Trenton ittsb. and Connellsville	250	1,339,661	111,493							OFF					OFF)	D. A	SKE
unbury and Erie	70	2,093,740	262,886	2,010,000	In progr.				Loan, 6 per ct1856.	Per			n & non et	1	Per	et. I	Perc
altimore and Ohio	382	13,118,902 1,650,000	25,000	22 218,849 1,650,000	3,645,609	1,472,150 124.981	none 6	56	Do. 6 do1862	112	1/2	Do.	o, 6 per ct. 6 do. c	oup's 1	868117	7/8	118
Vashington Branch	84		2,630,000	5,544,733	In progr.				Do. 6 do1867	117	118.	Do.	5 do. T	ex. ind,_1	866107.	4	
fanasses Gap	97	2.300,000 1,457,500	543,261	In progr.	171,188	89,752	5				STATE	SECURI	TIES.				
range and Alexandria	123	1,371,700	1,489,012	2,739,362	123,466	59,710	none		Maine, 6 per ct1860				ana, Can.L	oan, 6 per	ret		
ttsb'g & Steubenville	32 138	1,221,277 2,387,100	280,000 932,093		In progr. 286,730	122,534	none		Massachusetts, 5 per ct.1859 Do. 5 stg			Ken	tucky,6 pe	ref. 5 d	9-72-101	14	23
itsby & Steubenville irginia Gentral irgina and Tennessee ichmond and Danville	133	2,500,000	2,740,860	5,124,146	163 929	63,137		-4	New York, 6 per ct.1860-62	110	114	Lou	isiana, 6 c	o. cd. le	ng 91	16	92
ichmond and Danville	22	685,600	272,086	1,060 495	225,294 139,438	.47,003	none		Do. 6 do. 1864-65 Do. 6 do. 1866-67			Mar I	yland, 6 d	о. ср.187	0-90.105	1/2	106
labld Fred & Potomic	130	1,000 000	730,506	1,708,169	232,172	120,212			Do. 6 do. 1872-73	119	120	Miss	souri, 6 de	o. cp1	872 88	16	88
Vilmington and Weldon Vilm'ton & Manchester	162 171	1,070.775	1,373,989	2,330,877	339,800	151,064			Do. 5½ do. 1860-61 Do. 5½ do1865	10			arolina,6 de 5, 6 d	o. cp1			99 103
aleign and Gaston		973,300	120,573	1,135,451	173,923	103,392	2%	****	Do. 5 do. 1858-60	10	1% 104	Do	. 6 d	0 1	860105	36	106
harlotta and S. Carol	109 165	1,201.000 1,293,464	380,000 968,800	1,670,908 1,999,080	243,037 214,865	98,277 206,774			Do. 5 do 1866 Do. 4½ do. 1858 59-6	4. 9	1%			01	875	-	113
outh Caronna	200	4 188 020	2,731,545	7,133,848	1,363,008	788,862	9		Alabama, 5 do. coup			. Do	. 5 d	01	865		
CHARLES AND LA CTREET,	201	719,842 4,156,000	225,000 260,991	1,092,222 4.416,99	251,076 906,694	161,193 532,110			Georgia, 6 de. do187	U. 8	91		na., 5 d	o. cp. 1	877 87	14	84 89
Georgia Georgia Oentra Georgia Oentra Georgia Western Geotgom'ry & W.Point	191	3,500,000	321,967	3,507,737	962,644	487,378	14		Illinois Int.Imp. 6 per ct.184	7.10	104	Ten	ness. 5 d	o. cp	81		83
facon and Western	116	1,230 560 1,274,600	167,712 654,816	1,647,045 1,929,416	313,179 249,128		8		Do, do, 6 do. Int'es Indians, 5 do.			Do. Vire	, 6 d	o. cp1	96	¥	96
	92	1,097,496			258,306			****	Do, 2% do			1118	- in it	or often ?	Anna and	rie .	21

#### Railroad Bonds.

The following quotations are ex-interest.

NAMES OF COMPANIES.	Amount of Loan.	Description	on of Bonds.	Rate Int	Trans Inc.	Interest payable.	Where payable.	Due.	Offered.	Asked.
Alabama and Tennessee River	\$838,000	1st mortgage.	convertible.		7	1st Jan, 1st July	N.Y.	1872		8734
Buffalo and State Line	500,000	Do.	inconvertible			April, October.	66	1866		98
Bellefontaine and Indiana	600,000	Do.	convertible_		7	Jan'y, July	66	1866		100
Do. do	200,000	Real estate, c	onvertible		7	Jan'y, July	66	1858	90	92%
Do. do	200,000	Income, guar	Cl. Col. & C	in.	7	Feb'y, August.	46	1859	87%	
Central Ohio	1,250,000	1st mort, con	v east. sec			Divers		1861-64	90	93
Do	800,000	2d do. inco	nvertible		7	March, Sept		1865	75	77
Dincinnati, Hamilton, and Dayton	500,000	1st mortgage	inconvertible			20.Jan. 20.July	66	1867		95
Do. do. do	465,000		do.		7	May, Novemb.	66	1880	87	88
Cincinnati and Marietta		1st mortgage,	conv. till 186	2	7	Jan'y, July May, Novemb.		1868		85
Sincinnati, Wilmington, and Zanesville	1,300,000	Do.	convertible-		7	May, Novemb.	66	1862	87 16	90
Cleveland, Painesville, and Ashtabula.	567,000	Do.	inconvertible			Feb'y, August.	66	1861		95
Dieveland and Pittsburgh.	800,000	Do.	convertible.			Feb'y, August.	66	1860	90	93
Do. do.	1,200,000	Do.	on Branches			March, Sept	66	1873		85
leveland and Toledo	525,000	Do.	inconvertible	0	7	Feb'y, August.	66	1863	87	883
Chlcago and Mississippi	800,000	Do.	conv. till 185			April, October.	64	1862-72		89
Do. do.	1,200,000	Do.	inconvertible			April, October.	33	1862-72	80	
Covington and Lexington	400,000	Do.	do			April, October.	44	1862	70	75
Do. do.		2d mortgage,				March, Sept	66	1883	621/2	70
Delaware, Lackawanna, and Western.		1st mortgage.				April, October.	66	1875	90	93 85
Fort Wayne and Chicago	1,250,000	Do.	conv. till 186		7	Jan'y, July	66	1873	80	
Galena and Chicago	2,000,000	Do.	inconvertible		6	Feb'y, August.	46	1863	94 84	95 843
Do. do. Great Western (Illinois)		2d mortgage,	do		-	May, Novemb.		1875	85	90
Green Bay, Milwaukee, and Chicago.		1st mortgage				April, October.	66	1868	92	95
Jeffersonville	400,000	Do.	convertible .		0	10. April, 10.0c.	16	1863 1873		75
Indiana Central	300,000	Do.	2d sec. incom	nv	7	April, October.		1866		90
Indianapolis and Bellefontaine	600,000	Do.	convertible.			May, Novemb.	46	1860-61		91
Indianap. & Cin'ti (for Lawb. & U. M.)	450,000 500,000	Do. Do.	do. conv. till 188			Jan'y, July	66	1866		94
La Crosse and Milwaukee		1st mort. 1st s				March, Sept May, Novemb.	1	1874		85
Lake Erie, Wabash, and St. Louis		1st mortgage			7	Feb'y, August.		1865	80	85
Little Miami	1,500,000	Do.	inconvert		6	2. May, 2. Nov.	66	1883		85
Michigan Central	1,000,000	No mortgage			0	April, October		1860	101	102
Do.	600,000					March, Sept,	BUBL.	1869	101	102
Milwaukee and Mississippi		1st mort, 1st				Jan'y, July		1862		100
Do. do.	650,000			1858		April, October.		1863		97
Do. do.	1,250,000			1860		June, Decemb		1877	85	85
New Albany and Salem	500,000		section			April, October.		1858-62	102	102
Do. do.	2,325,000		sec. con. till		8	May, Novemb	66	1864-75	83	85
Northern Cross.		1st mortgage			8	Jan'y, July	66	1873	94	95
Ohio and Indiana	1,000,000				7	Feb'y, August.	4.6	1867		100
Ohio and Pennsylvania	1,750,000				7	Jan'y, July	66	1865-66		102
Do. do.	2 000 000	Income, conv			7	April, October.	66	1872		89
Pennsylvania (Central)	5 000 000	1st mortgage				Jan'y, July			94 1/2	
Scioto and Mocking Valley	300,000		1st sec. con		7	May, Novemb.	N.Y	1861		85
Steubenville and Indiana	1,500,000		convertible.		7	Jan'y, July	66	1865		80
Terre Haute and Indianapolis	600,000				7	March, Sept	66	1866		
Terre Haute and Alton	1.000,000				7	Feb'y, August	44	18627772		85
Do. do	2,000,000				Q	Feb'y, August	66	1870	78	79

The following quotations include the accrued interest.

NAMES OF COMPANIES.	Amount of Loan.	Description of Bonds.	Rate Int.	Interest payable.	Where payable.	Due.	Offered.	Asked.
Baltimore and Ohio	2.500.000	Mortgage	. 6	April, October	Balt.	1885	82	83
Do. do	1.128,500	Do	- 6	Jan'y, July		1875	88	89
Chicago and Rock Island.	2,000,000	1st mortgage, conv. till 1858	. 7	10.Jan. 10.Ju'y	N.Y.	1870	95	95 16
Erie Railroad	3,000,000	1st mortgage	-1 7	May, Novemb.	61	1867	111	112
Do	4,000,000	2d mortgage, convertible	- 7	March, Sept	66	1859	95	97
Do	6,000,000	3d mortgage	- 6	March, Sept		1883	92%	93
Do	4,000,000	Not conv. Sink Fund, \$420,00	0 7	Feb'y, August.		1875	87	87%
Do	4.351,000	Convertible, Inscription	- 7	Feb'y, August.		1871	78	80
Do	3.500,000	Convertible	- 7	Jan'y, July		1862	80	83
Hudson River	4,000,000	1st mortgage, Inscription	- 7	Febry, August.		1869-70	100%	100 %
Do	2,000,000	2d do. do	- 7	16. June, 16. Dec	11	1860	90	91
Do	3,000,000	3d do. convertible	- 7	May, Novemb.	86	1870	73%	
Illinois Central	17,000,000	Mortgage, inconvertible	- 7	April, October.	46	1875	78	78
Do. (Free Land)	3,000,000	M'ge 345,000 acrs-priv 7 shar	8 7	March, Sept	46	1860	81	83 1/2
Michigan Southern	1,000,000	1st mortgage, inconvertible .	- 7	May, Novemb.	46	1860		100
New York and Harlem	1,800,000			May, Novemb.	66	1861-72	90	90%
New York and New Haven	750,000		. 7	June, Decemb.	66	1855'60'6	80	833
New Haven and Hartford			. 6	Jan'y, July	46	1873		973
Northern Indiana	1,000,000	Do, do.	. 7	Feb'y, August_		1861		100
Do. Goshen Branch	1,500,000			Feb'y, August.	66	1868	85	87
New York Central	8.287.000	No mortgage, do	. 6	May, Novemb.	64	1883	91	91%
Do. do.	3,000,000	No m'ge conv.from June 57-5	9 7	15. June. 15. Dec	66	1864	102	1023
Panama, 1st issue	900,000	Convertible till 1856		Jan'y, July	46	1866	103	1043
Do. 2d do	1,478,000	Do. till 1858		Jan'y, July	66	1866	103	104
Reading, issued 1843	1.573.000	Mortgage, inconvertible	- 6	Jan'y, July	Phila.	1860		
Do. do. 1844, '48, '49	1,300,000	Do. convertible	. 6	Jan'y, July		1860	95	96
Do. 40. 1849	3 469 000	Do. inconvertible	1 6	April, October-		1870	83 1/2	84

Do. 5 do	CITY SECURITIES.	Int'st payable.		Askd p ct.		Int'st	payable.		Askd p. ct.
Alleghany, 6 per ct. coup	Do. 5 do1858-760 Do. 5 do1870-775	August and November	98 100	100%	New Orleans, 6 per ct. cp. R.R. X Philadelphia, 6 per ct1876-'98	Do. Jan'y,	July	92%	94 78 9314
Brooklyn, 6 per ct. coup. Long X Jan'y, July 100 101 105 Do. do. Municipal X Do. 22½ 8 Clev'fd, 7 per ct. cp. W.W. 1879 X Do. do. 103 105 Sacramento, 10 p. ct. cp. 1862-74 X Do. do. 202½ 8 Scramento, 10 p. ct. cp. 1862-74 X Do. do. 98 105 Scramento, 10 p. ct. cp. 1872-77 X Jan'y, July 91 91 12 12 12 12 12 12 12 12 12 12 12 12 12	Alleghany, 6 per ct. coupX Baltimore, 6 per ct1879-'90	Jan'y, July Quarterly	72 97	75 98	Quincy, 8 per ct. coup1868 X Racine, 7 per ct. coup1873 X	Jan'y, 10. Fe	July		
Chicago, 6 per ct, coup. 1873-77 X Jan'y, July 91 91 4 Do. 10 p. ct, cp 1871 X Do. do. 96 9	Brooklyn, 6 per ct. coup. Long X Clev'Pd, 7 per ct. cp. W.W. 1879 X	Jan'y, July Do. do	100 103	101 105	Do. do. Municipal. X Sacramento, 10 p.ct. cp. 1862-774 X	Do. Do.		821/4	83½ 83½ 81 88
Detroit, 7 per ct. cp. WW.1673-78 X Feb'y, August. 102½ 103 Do. 10 do. pay. N. Y X Jan'y, July 105 Louisville, 6 per ct. cp X Divers 86 Wheeling, 6 per ct. coup X Divers 74½ 7	Chicago, 6 per ct. coup 1873-'77 X Detroit,7 per ct.cp. WW.1673-'78 X	Jan'y, July Feb'y, August,	91 1023/	91½	Do. 10 p. ct. cp 1871 X Do. 10 do. pay. N. Y X	Do. Jan'y,	do July	96 105	98

#### Cincinnati Stock Sales, By HEWSON & HOLMES

	A DULL DE TOTAL	1000	2074 OF T	22/20/20/20	17 3 C. A.	. A. N	ST TEMPOLE
O Cir O Cit O Cit O Lit O Inc	ving. & Lex  Mil. & Za  y of Maysv  ayable sem  tie Miami, 6  1. & Cin., 7	. 7 per 10 per nes. 7 ille, 6 i-annu 3 per c Div. 8 per ct.	per ct. 2nd per ct. 2 per ct. 2 per ct. ally in N t. Bonds crip Div. Bon	Mort. ome Be d More Bonds, lew You, 1st M	Bonds t.Bond coup ork	s - 66 - 67 ls - 68 ons - 40 - 90 - 70	aloot Si
						*	V/Arint
16	e Cincinnac	1 ac 01					
44	Columbus	A. W					F-1333 F
65	Commons	W A					
65	Down & Yo	dione					
66							
	46 46	i de L	18 61				1c
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66	Cincinnat	Wil	mington	& Za	nagvil	le 31	46
66	Cincinnat	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	" C	, 00 2311	16		2/ 16
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86	Cin Har	& In	d				.6
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66	66	66					
66	46	44					
46	44	66					
66	66	66				7	36 66
	O Circle O Circle O Circle O Circle O Masshare	O Coving. & Lex  O Cin., Wil. & Za  O City of Mayer payable sem O Little Miami, 6  The Columbus  Columbus  Peru & I Mad Rive  Covington Cincinnat  Cinc, Har.  Little Mia Cinc, Har.  Little Mia Cincinnat  Cinc, Har.  Little Mia Cincinnat  Cinc	O Coving. & Lex. 7 per 0 "10 per 0 Cim., Wil. & Zanes. 7 O City of Maysville, 6 payable semi-annu 1 Little Miami, 6 per c 0 "10 per 0 Cim., 7 per ct. 0 Marietta & Cim., 7 per ct. 0 Marietta	O Coving. & Lex. 7 per ct. 2nd  ""10 per ct. Ince Clin., Wil. & Zanes. 7 per ct. 2 O City of Maysville, 6 per ct. payable semi-annually in N O Little Miami, 6 per ct. Bond ""Div. Scrip	O Coving. & Lex. 7 per ct. 2nd Mort.  "10 per ct. Income Bo O Cim, Wil. & Zanes. 7 per ct. 2d Moro O City of Maysville, 6 per ct. 2d Moro O City of Maysville, 6 per ct. Bonds, payable semi-annually in Now Yo O Little Miami, 6 per ct. Bonds, 1st Mo "10 per ct. Div. Bonds. O Marietta & Cin., 7 per ct. Div. Bonds. O Marietta & Cin., 7 per ct. Income Shares Cincinnati & Chicago  "Columbus & Xenia "" "Peru & Indianapolis "" "Mad River & Lake Krie "" "" "Covington & Lexington "" "" "" "" "" "" "" "" "" "" "" ""	O Coving. & Lex. 7 per ct. 2nd Mort. Bond  "10 per ct. Income Bonds  O Cin., Wil. & Zanes. 7 per ct. 2d Mort.Bond  O City of Maysville, 6 per ct. Bonds, coup payable semi-annually in New York  O Little Miami, 6 per ct. Bonds, 1st Mort  "Div. Scrip  Ind. & Cin., 7 per ct. Div. Bonds  O Marietta & Cin., 7 per ct. Income Bonds  Bhares Cincinnati & Chicago  "Columbus & Xenia  "Mad River & Lake Erie  "Mad River & Lake Erie  ""  Covington & Lexington  Cincinnati, Wilmington, & Zanesvil  ""  ""  Cin., Har. & Ind  Little Miami  Cincinnati, Hamilton, & Dayton  Central Ohio  "Central Ohio  "Ohio & Mississippi	0 Cin., Wil. & Zanes 7 per et. 2d Mort.Bonds68  O Lity of Maysville, 6 per et. Bonds, coupons payable semi-annually in New York

Extract from De Coppet & Co.'s Money Circular for the European Steamer of the 24th. Inst.

New York, Oct. 22nd, 1855.

At the close of our last advices of 16th inst., our Stock Market was buoyant, with a fair prospect of a further advance. This expectation has met with disappointment; the news of a further rise in the rate of discount of the Bank of England, and of forced movements of specie from London to Paris, has a depressing influence. This feeling has increased for the last two days, when it became known that about \$700,000 of gold were shipped by the Havre steamer, in the face of European Exchanges, ostensibly having no margin upon such operations, thus leading to the fear that the drain of specie from this country might continue, influenced by other than the natural causes of commerce. These circumstances have produced an uneasiness which has resulted in a decline of stock in spite of a Money Market tending dur-ing the week lower and lower, can. This decline has been felt more particularly upon Railroad and fancy stocks, State securities having remained comparatively steadier.

Transactions in State stocks have been quite limited, and we notice but few sales in Indiana 5s, which, after having risen to 8234, have receded to 82; in Louisiana at an advance of 1, and in Tennessee at a decline of 2 per cent., in Virginia 6s of 1, and in Missouri 6s at a decline of 1 per cent. In City and County securities some retail demands have been supplied at receding prices; among these we can mention some bonds of the cities of

Rochester and Albany, and of the counties of Clark and Montgomery, Ky.

The demand for R. R. bonds has been but very limited generally. At private sale we notice some small transactions in the bonds of the Green Bay, Milwaukee and Chicago 1st mortgage; of the Cincinnati, Wilmington and Zanesville 1st mort'ge; of the Milwaukee and Mississippi 3d section, and of the Covington and Lexington 2d mortgage.— At the Board there were considerable transactions in Illinois Central construction bonds, at a gradual decline of 33/4c. There were also a few sales of Freeland bonds at a decline of ½c., and of Chicago and Rock Island 1st mortgage at a decline of 1 per c., and of New York and Harlem, 1st mortgage at former rates; of Erie 7s, 1875, at a decline of 1 and of 7s, 1883, of ½ per cent.

The decline on Railroad shares has been gener-

al and heavy. It is 3½ per cent on Chicago and Rock Island; 3½c. on Galena and Chicago; 2½c. on Hudson, 2c. on Michigan Central; 2c. on Michigan Southern; 2½c. on Reading; 3c. on Cleveland and Toledo, which are quoted, dividend off, and 2½ per cent. on Erie. most those actively dealt in. Money for loans on demand has been easier during the week, the rate still remains 7s. For stock loans on time, 10 to 13 per cent. is readileter, and the liability to injury or loss of life, there by paid; with a disinclination on the part of lenders to loan for a fixed sum. Paper remains from 7 What we want in this country is more stringen. to 10 per cent. according to length and cla

Exchanges on London and the north of Europe are looking up, whilst Paris is heavy and not sought after. Principal sales on London, \$1 08% to \$1 0918; on Paris \$5 1716 to \$5 1834.

DE COPPET & Co.

#### American Railroad Journal

Saturday, October 27, 1855.

#### Accidents on Railroads.

Of the hundreds who are annually maimed or slaughtered on our railroads, more have certainly fallen victims from carelessly walking or lying on the track, than from any other half dozen causes put together. Accidents arising from collisions or trains getting off the track, are immediately laid hold of by the press, and circulated all over the country; but the majority of those who are killed while walking or lying on the track are never heard of, beyond their immediate circle of acquain- possible means, and protected the public against tances. While improved machinery and skill, too, are beginning to diminish the smash-ups, formerly so common on our roads, there would seem to be an increase of accidents from this cause, in proportion to the increased number of miles of railroad going into operation. The evil, besides, has line has been laid down. As long as a certain proportion of mankind remain "dull of hearing," are easily frightened, or naturally stupid, the meeting of two trains will always afford increased due measure of attention? Will they make tresopportunities for railroad slaughters; as such parties are sure to step from one track to the other, hardly anticipating the possibility of such an occurrence.

A few days since, we witnessed an accident of to the jaws of destruction? this description, on the New York and Erie road. about six miles from Jersey City. The victim in this case, on the approach of a train from the cost of materials used on the several divisions of west, stepped on the latter track, while the way this road, for the month of August, as furnished train, then at a high speed, was within little more than a hundred yards' distance. The engineer month: whistled, the brakes were applied, and the train stopped in a few seconds. The individual, how- a cost for engineers and firemen of \$13,655 31, ever, had been struck dead, probably without be- er 5.26 cents per mile run. The quantity of oil ing aware of the danger.

every day on our railroads; and yet for such oc- of pounds of waste used 5,3641/2, do. of tallow 5,currences, not only do the officers of a road suffer 3511/4. The total cost of these three commodi. the painful feelings necessarily thus induced; but ties was \$3,926 76, or 1.27 cents per mile run.trains have to be instantaneously stopped—often The cost of repairs of ergines was \$13,475 65, or at great risk, and always with a loss of valuable 5.19 cents per mile. time, besides other inconveniences. The public, too, are disposed to growl, newspapers denounce \$30,303, or \$3.59 per cord. This makes 30.77 and companies are pretty certain to be annoyed miles run to the cord, or 11.67 cents per mile, with prosecutions, too happy if they can escape This is slightly higher than last year, the differwithout having to pay heavy damages.

Now this whole thing is a grevious wrong, and of the commodity. ought to be, as it can be, instantly put a stop to The following is a summary of the total expens In Europe not one accident occurs from this cause es for the above purposes, with the amount of for twenty in this country; though the population tonnage transported on the road during the same in the former is much more dense than in the lat- period :

What we want in this country is more stringent legislation on the subject. Every act of unnecessary trespass on the track of a railroad, should be made punishable by law. This would deter all parties from unnecessarily venturing on it, near the stations, where most mischief of this sort happens; while it would drive from other parts of the road, the timid and the thoughtless, who are by far the majority of our present victims. The law would also take sides, as it ought to do, with the companies in all such cases. At present, individuals trespass at their own risk; but this is not enough, as sad experience has shown. The bold and reckless venture with no qualms of conscience that they are breaking the law. "One is taken and the other left," the former, probably, having ventured into the danger by the example of the latter, who escaped, because he possessed qualities of body or mind which the other lacked.

Legislation has been entirely too much one slded. It has tied down corporations by every them. Judicial decisions, too, we believe, have been more or less tinged with the feeling, that where mischief took place, the companies must have been in the wrong. We think the time has come to give both sides a fair chance. The public, so far, have certainly been greater gainers been rather augmented than diminished by the from the construction of railroads than the combuilding of double tracks. When these had no panies themselves. Then why for ever legislate, existence, the individual who trespassed on the as if the latter were a common nuisance, always single track by getting off it, on the approach of in the wrong, and always disposed to maliciously a train, might be considered as perfectly out of inflict loss and damage on the public? Why not danger; but such is not the case where a double protect them as well as other parties from them? We are fully satisfied that this evil can be remedied, in a great measure, at least, in a very short time. Will legislators please give the subject a passing on railroads as punishable as trespassing in an orchard, or other private property, putting it under the ban of the law, and thus doing their duty to rescue their constituents from running in-

#### New York and Eric Railroad.

Below we give an abstract of the miles run and by the General Superintendent's table for that

The total number of miles run was 259,590, at used was1,9723/4 gallons making 16.45 miles to one There is nothing in this, but what is occurring pint. This includes oil for head lights. Number

Of fuel used there were 8,4371/2 cords costing ence being occasioned by the increase in the price

beutten				ost per
You have granted	Miles	Total		mile
Divisions.	run.	cost.		run.
Eastern Division, Unrailroad and New				
branch		\$22,984	75	80.42
Delaware Division.		13.066	46	22.94
Susquehanna do		18,998	96	20.03
Western do		10,681	47	18.67
Total	259.590	\$60,731	64	
,,		Tons of		Cons of
		useful	use	eful l'd
	Pas'gr car	s l'd car-	an	d dead
		ried 1 we		
	mile	. mile.	ed 1	mile.
Eastern Division				
Union railroad &				
Newburg Branch		2,545,792	5,2	44,204
Delaware do		3,351,638		93,452
Susquehanna		4 270 885		19,499

Totat ..........437,123 12,196,628 25,266,832 With the exception of the cost of fuel, the table shows a decrease on every item, as compared with August, 1854. On the repairs of engines, the reduction is fully equal to ten per cent.

Western do..... 91,648

2,028,318

4,209,677

We have no doubt that the publication of these monthly statements, with the names of the Engineers who have distinguished themselves by running at the lowest expense, will completely effect the desired object, and keep the working expenses at the lowest point compatable with general

#### Report of A. B. Gray, upon the Atlantic and Pacific Railway

(Continued from page 668.)

Preparing the road-bed from Mustang Springs to Pecos river over the Staked Plain, will be very light; but from the river Pecos to the Rio Grande considerable allowance has been made from the fact of the comparatively heavy grades, extra cutting, and filling, and the great cost of wagon transportation for necessaries required in the advance graduation of the road; all of which will enter largely into the contractors' estimates. It may be more expedient to use cross-ties of timber found near Fort Chadbourne, or to the east of it, and hence additional allowance for cost of transportation on the road, as the same progresses. They may be had of sufficient durability, however, at more convenient points, such as near the Guadaloupe mountains and the short distance to be hauled may prove more economical.

The estimate for iron is based upon the supposition that it can only be deposited at the eastern end, by water from New Orleans.

Approximate estimate for construction and equipping a Railway from the Mississippi waters to the Rio

FIRST DIVISION PACIFIC RAILROAD.

From the eastern boundary of the State of Texas to El Paso on the Rio Grand del Norte-783 miles.

#### COST OF CONSTRUCTION.

To Fort Chadbourne, 407 miles from	eastern
borders near Shreveport.	
200 miles grading, \$5,000 p. mile \$	1,000,000
207 " \$4,500 p. m	931,500
Ballasting, grubbing, and clearing, \$700	
p. m	284,900
Cross-ties or sills, (2,600 per mile,)\$1,-	
500	610,500
Laying and distributing iron and ties,	
\$750 p.m	305,250
Brazos, Trinity, and forks of the Co-	
lorado of Texas	150,000
	200 miles grading, \$5,000 p. mile\$: 207

\$8,282,150

	6 2.E. E.L.
To Mustang Springs, 100 miles west	
from Fort Chadbourne.	Stond Town
Grading 100 miles, \$4,000 per	DOMESTICS CONTRA
mile \$400,000	t agolyur'l
mile\$400,000 Ballasting, &c., \$500 per mile 50,000	consisting of
Carrotting, 41 600 p.m. 160 000	0.00
Cross ties, \$1,600 p.m 160,000	3.01111.275
Laying and distributing iron	Dall - J
and ties, \$750 p.m 75,000	
Bridging Oak Creek and Br.	
of Colorado	COT 000
m 11 D 117 117 11-	695,000
To the Pecos river 115 miles	
west from Mustang Springs,	
(across Llano Estacado).	
Grading 115 miles, \$2,500 per	
mile \$287,500	
Ballasting 115 mtles, \$500 per	
mile 57,500	
Laying iron ties, &c., \$800 per	
mile 92,000	
Cross ties, \$1,800 per mile 207,000	
	644,000
To El Paso, 161 miles west-	•
ward from Rio Pecos.	
Grading 60 miles to Guada-	
loupe Pass, \$8,500 per	
mile\$510,000	
Grading 100 miles to the Rio	-
Ballasting 101 miles,&c.,\$500	
per mile 50,500	
Extra graduation and mason-	
ry, possibly short Viaduct at the foot of Guadaloupe	
at the foot of Guadaloupe	
Peak 100,000	
Cross-ties 161 miles, \$2,000 per	
mile 322,000	
Laying and distributing iron	
and ties, \$1,000 per mile 161,000	
Bridging the Pecos river 6,000	
	2,215,000
Cost of iron (delivered at	
starting point of road water	
navigation) for 783 miles of	
65 lb. Rail (114 and 4-10	
tons per mile,) \$80 per	
ton\$7,166,016	
Wrought iron chairs and	
spikes at \$400 per mile 313,200	
spikes at \$100 per mile 010,200	7,479,216
	1,110,210
Total graduation and masonry, bridging	
and superstructure, of Line through	14 100 966
Texas to El Paso\$	14,100,000
EQUIPMENT.	
First class engines 100,\$10,-	
000 \$1,000,000	
Freight and baggage cars,	
1.500, \$750 1,125,000	
Passenger cars, 150, \$2,500. 375,000	
Passenger and freight de-	
pots	
Passenger and freight sta-	
tions, buildings, and ma-	
chine shops, machinery	
and fixtures, engine and	
car houses 550,000	
Engineering and contingen-	
cies 2,000,000	9 550 000
	3,550,000
M . 1	
Total cost of first class road fully equip-	
ped for 784 miles through the State	10 859 288

.... \$19,658,366 of Texas ....

Average cost per mile, \$25,107.

The following table which I have compiled from authentic sources, will show that none of the northern or north-eastern roads can be taken at a comparison to arrive at an estimate of the cost

There is a wide difference in the expense of railroads in various sections of the country.— Those of the six New England States range from an average of \$30,978 to \$52,289 per mile, and a general mean of over \$40,000 a mile. Those of New York, New Jersey, and Pennsylvania, from \$31,670 to \$43,505 per mile, with a general mean of the Rio Grande, are numerous towns and settlements, SanEleazario, Isletta, Socoro, McGoffins about 25 miles per ville, Franklin, Molino del Norte, (Hart's Mills,) for stoppages, &c.

of \$39,485; while Indiana, Illinois, Ohio, Mississippi, and Tennessee, average only \$18,991 to \$22,622, with a general mean of \$20,692 per mile. Virginia, North and South Carolina, Georgia, and Alabama, average from \$17,97I per mile to \$19,-722 with a general mean of \$18,663 per mile.-This great difference is owing to the various and natural causes acting in favor of the southern roads. The great expense of the northern rail-ways does not arise from the original cost, nor would it be a fair guide to their cost if constructed at the present time, for many alterations and improvements have taken place in them, creating additional expense, together with other causes helping to swell the amount.

Land damages also constitute a very large item upon the northern roads, as for instance, in the State of New York, where it averages \$4,000 a mile, and which would not enter into the expense of a road through Texas, the right of way being donated by the State for 200 feet wide—and where of if the road were obliged to run through ground previously located, owners will be glad to donate roadway, for the sake of having it convenient to

their lands.

The Richmond and Danville railroad, one of the most substantial first class roads in the country. which has been just completed, cost \$23,000 a mile, fully equipped with a heavy rail, and there was much cutting and masonry upon it. Therefore, allowing for every contingency, I cannot be considered to have estimated too low. Illinois Central railroad cost \$20,500 per mile, and would be a much better criterion to go by than any other road that I know of, from the general similarity in the country to that of the State of Texas. Average Cost per mile of Railroads in Different

St	ales.
State of	Av. cost p. m'l.Mean cost.
Maine	
New Hampshire	. 30,978 30
Vermont	. 43.167 80 1
Massachusetts	. 45,760 07 \$40,880 16
Connecticut	
Rhode Island, (only 50	0
miles inoperation)	. 52.289 60 ]
New York	.\$43,505 43)
Pennsylvania	. 43,140 42 \$39,435 44
New Jersey	
Indiana	
Illinois	
Ohio	
Mississippi	
Tennessee	
Virginia	
North Carolina	
South Carolina	
Georgia	
Alabama	

There would be no interruption by seasons of snow or cold, no malignant diseases or tropical suns to interrupt the prosecution of the out door work, winter or summer; neither would there be any tunneling, extensive bridging, or heavy cutting and embankment to prevent a continal laying of superstructure,

Therefore, assuming sufficient roadway to be in readiness, with cars to transport the cross-ties and rails to depots; the light hand cars that can be lifted off and on the work for distributing the same, it would not be extravagant to state that a mile a day of the superstructure can be laid; making less than three years to the Rio Grande. Allowing 18 months for preliminary surveys, location of road, and advance graduation necessary for commencement of superstructure, and less than 5 years will be required to connect the Eastern and Western limits of Texas by a railway (783 miles long,) reaching half way to the Pacific coast, from cities of Arkansas and Louisiana, and the navigable waters of the Mississippi, where roads from the North and East will long before that period be constructed to.

Frontera, Fort Fillmore, Las Cruces, and Donna Anna, on the east side of the river; and the town of El Paso, and the villages of the Mesilla, etc., on the west bank of the Rio Grande. There are also the products of the mines of the Organ also the products of the mines of the Urgan mountains, distant 45 miles as well as those of the Janes and Corrolitas; the transportation of troops, supplies and mails to New Mexico; the trade of Chihuahua and Sonora, besides the great mails to California and Oregon, and overland emigration from the Valley of the Mississippi, that would be applied to the service of time and corrected. necessarily (by the saving of time and expense) be transported on this road, if simply to terminate at El Paso;—for it would be less than 800 miles to the Pacific coast. These with the local travel and traffic (transportation of cotton, wheat, etc., which at present amount to a great deal, and increasing a short time an hundred fold in the northern part of the State,) would render it not only self-sustaining, but producing as profitable returns as any other road in the United States, free as it must be from all competition for a long period to come.

By way of Baltimore and Washington from New York, and over the Alexandria extension, and East Tennessee and Virginia Railroads, intersect-ing the Charleston and Memphis route at the Tennessee and Georgia boundary, there will be nearly an air line southwest; thence to Memphis it is nearly west. There are about 700 miles of this route nearly completed, and the balance, 362 miles. in rapid progress of completion; 210 miles of it being the Charleston and Memphis road, and, that fully expected to be in running order by the 1st

of Jan., 1856.

From Memphis via Little Rock, to Fulton in Arkansas, not far from the beginning of the Texas road is 270 miles, which are already surveyed for a railway and provided for. These will connect with the road through Texas, undoubtedly before that line is completed. It is only necessary to glance at a recently compiled railroad map to observe the situation of these routes, and be convinced of this fact.

Then by constructing the road through Texas to the Rio Grande, we shall have a continuous almost direct line from New York to the river crossing at El Paso—of 2,153 miles, and which, at an average locomotive speed of 20 miles an hour, (express train,) would take four days and 111/4 hours.

From the Rio Grande (El Paso) to Junction of the Gila and Colorado rivers, it will be 550 miles, and through the Gadsden purchase will enable us to overcome easily in 5½ days (allow six) by a fine coach road that can, with very little expense, (\$100,000 at most) be made over firm ground nearly level, with all the necessary water stations bridging &c.

Thence to the Harbor of San Diego (or to San Pedro,) 210 miles by way of the road (only 150 miles in a straight line,) two days will be required. allow three days.

By steamers then to San Francisco in 36 hours,

allow two days. H'rs New York to Memphis, 1067 miles, at 20 per hour\* .... Memphis via Arkansas, and Texas to El Paso on the Rio Grande, 1086 miles, at 20 miles per hour.... El Paso to junction of Gila and Colorado by Post Coaches 550 miles.... Phence to San Diego (or San Pedro) by Post Coaches 210 miles.... 3 .. San Diego to San Francisco by steamer 550 miles.... Total time from New York to San Francis-.2 .. co..... 15 111/6 Thus by Railway through Texas, and thence by coaches to San Diego, shortening the time of pre-

\*Equal to 30 miles per hour at 16 hours per day, leaving 8 hours for rest, stoppages, &c., or about 25 miles per hour and 4 hours in every 24

days, saving a distance of several thousand miles' el, avoiding the fevers of the Isthmus, and

without traversing foreign soil.

At any time by an increase of speed, for which I have allowed ample latitude, we can with equal certainty and safety (with this road alone built) reach San Francisco in 12 days from New York, or in 10 days from Memphis, and the centre of the

great valley of the Mississippi.

The mails then from the Northern States, the
Eastern, Western and Southern States, will alike be accommodated to California and to Oregon; and passing entirely through our own Territory, arrive at their destination 8 days earlier than by the present foreign and circuitous routes, if the Texas connection with the Rio Grande is made.

Having a thorough knowledge of the country and several years' experience of every mile to be travelled from El Paso to the Pacific, I know this can be done. Illinois, Ohio, Indiana, Missouri and the West will not be obliged to send their mails a thousand miles to the East before they can have them start for the Pacific; but by their Railroad connections, will be able to concentrate at once on the main stem in Texas.

It likewise would enable the Government, at comparatively little additional expense to send of dispatches, and command conveyances to our Western possessions at any time, tri-weekly or

saily.

dI have not presumed that the great bulk of pas-gers and freight from the Atlantic coast, now carried by the steamers over the Isthmus, will be drawn away by this route, until the Railroad is extended 550 miles further to the junction of the Gila and Colorado, and where steamboat navigation can be had; or, until the whole line of Railway to the Pacific coast is completed.

As regards obstructions by Indians, I do not apprehend the least difficulty. Few hostile bands reside immediately along the parallel of 32° N latitude. If any, they are not permanent, but have their established homes to the north or to the south of it, and only occasionally cross it to

commit depredations.

The number of men that will be required for the construction of the road, and the settlements and towns that will precede and follow its completion, together with the necessary military posts afforded by the Government, for the protection of its citizens, will overawe these savages, and force them to abandon their predatory habits.

The incursions below this line against our dis-tant settlers, and the unprotected neighboring Mexicans, are made by comparatively few In-

dians.

I am confident from personal experience and knowledge of the various tribes I have allusion to, the 500 of our troops appropriately armed, equipped, and rationed with a system suitably regulated to this peculiar service, and full discretion allowed to the commanders, might establish perfect safety and peace from the Sabine to the Pacific. With ten or twenty-five persons I surveyed the entire route across the continent, without the loss of an animal or man by Indians, and the country most frequented by them. The State of Texas having granted sixteen section (640 acres each) to every mile of road constructed, and the lands along the line for the first four hundred and fifty miles, valued at least at seven dollars and fifty cents per acre, (\$7 50,) including town sites, stations, &c., the very large amount of thirty-four millions five hundred and sixty thousand dollars will thus be realized, for little over half the length of the road. Then for 333 miles, (balance of the ronte to El Paso,) being not so well timbered and watered, adjacent to the road it might very safely be set down at three dollars per acre; equal to ten millions two hundred and twenty-nine thousand dollars; amounting to at least forty-four millions seven hundred and eighty-nine thousand seven hundred and sixty dollars (\$44,789,760,) worth of land, given as a bonus for the construction of a crossing, and made a survey of the Falls at Molivalley widens to several miles in extent; the Railway, which I have shown will cost less than no del Norte or Hart's Mills, two miles above the rocky bed of the river disappears, and is replaced

this road.

In proceeding to show the entire feasibility and practical advantages of constructing a Railway west from the Rio Grande, I will demonstrate that the entire route from the navigable waters of the Mississippi to the Pacific coast, at San Pedro or San Diego, will not exceed for its entire construc tion the amount estimated as the value of the eight millions three hundred and fifty-six thousand eight hundred and forty acres of land granted by

There are immense tracts of beautiful country with inexhaustible beds of gypsum and valuable coal fields embraced within the belts (140 miles wide by 450 miles long,) reserved by Texas for railroad purposes, and which emigration and speculators have not yet reached, and where every acre donated to the company can be selected and made available. In the belt reserved for similar purposes between the parallels of 30° 30' and 32° west of the first reservation,) there are no settlements and locations at present made in the rich valley of the Pecos, or the vallies nearer the moun-

When it is considered that the lands granted by the Government, six sections to the mile, which constructed the Illinois Central Railroad, sold at an average of more than ten dollars an acre, I am certain that the estimate placed on the Texas lands under the superior privilege by which they can be selected, is much too low; but as in the case with the estimates I make for building the road through the State, (placed at an extreme cost,) so I prefer to err on the side that will prove to the advantage of those who may be most affec-

ted by it.

On arriving at the Rio Grande, it became necessary to remain a short while and recruit our anigue of the journey. an order had been issued by the Government of of Sonora, and Chihuahua, to respect all parties sent out under the auspices of the Government, connected with the Pacific Railroad Surveys, during the treaty then pending with the United States; and that Gen. Garland, commanding the Department of New Mexico, was authorized and requested to have an exploration made with that view .-It may be well here to note, that the permission from Mexico to pass through Mexican Territory, for such purpose had not been granted when I left Washington in October. and my only resource now was to consult Gen. Garland.

Soon as it was possible for me to obtain a conveyance, which was on the 19th of February, I been driven off by them, the number appears to set out for Albuquerque, head quarters of the Department of New Mexico; and following the Rio Grande some 250 miles, visited the proposed horses are the most abundant possessions of the crossing of that river at Frontera, at the town of people of New Mexico.

Mesilla, at Donna Anna, and also Isletta, thirteen "A good wagon road miles below Albuquerque. At the latter named place, I had an interview with Gen. Garland, who upon examination of his powers, and after due consideration gave me authority to make the re-connoissance and exploration desired to the Paci-

While awaiting return conveyance at El Paso, for the purpose of continuing the survey, I availed myself of Gen. Garland's hospitality; and, in addition, he afforded me an opportunity of visiting the Placer Mountains, and the Canon, through which it was proposed to carry a Railroad to the Pacific, by way of Fort Smith, in Arkansas, and Albuquerque, New Mexico.

The fourth day after reaching Albuquerque, I

fine condition.

From Robladero, ten miles above Donna Anna, in latitude 32° 27', N. to San Eleazario in latitude rigation.
31° 35', I examined the river for the best railway "A short distance below the 32d parallel the twenty millions of dollars! Such a munificent town of El Paso; which point, I concluded had by falling banks ten feet in height, and by a soft

sent transit (the Ocean route) from five to eight | donation must undoubtedly secure the building of greater facilities for bridging, than any other on the Rio Grande.

Previous to my starting up the country, I had the pleasure of meeting at the Molino, Capt. Jno. Pope, of the Topographical Engineers, who was preparing to make a survey from El Paso to Preston, on Red River, for railroad purposes. We had examined the river at the mills together, and observed that the nature of the ground and stone requisite for foundation and piers, afforded every facility for the construction of a substantial bridge. Captain Pope's course was to follow the Guadaloupe Pass, and the Delaware Creek to its mouth, thence across the Staked Plain to the head springs of the Colorado. This line from the Rio ecos would be about 16 miles above the crossing propose for that river, and 20 miles north of the Mustang Springs.\*

\*Since the above, I have seen the report of Capt. Pope, and quote the following views of that ac-complished officer, of the country, over which he passed, from the Rio Grande to Red River.

"Water is found at intervals not to exceed 28 miles, between the Rio Grande and the Guadaloupe mountains, and from the western base of the mountains to the Pecos abundant springs of water, both fresh and mineral, occur at much shorter inter-

" Timber of large size is only found immediately contiguous to the 32d parallel on the east side of the Guadaloupe range, where abundance of pine of the largest size faces their eastern slope; but fuel of the best quality, and which is alone used on the lower Rio Grande, is furnished by the

roots of the mesquit.

"The table lands are covered with the mesquit brush, whose roots are numerous beyond conception, and are of a size varying from one inch to mals, which were somewhat flagged by the fati- five inches in diameter. As a fuel they are un-I learned at El Paso, that commonly fine, and are alone used in the settlements from Donna Anna to San Eleazario. As Mexico, to the commandants of the frontier posts many persons, from ignorance of this fact, have suffered for wood in the midst of this abundance, it is proper to state here that all the table lands of New Mexico furnish this fuel, and that it can be procured with very little trouble in any part of the country.

"The gramma grass, which exists in the most profuse abundance over the entire surface of these table lands, is nutritious during the whole year, and the plains between the Rio Grande and the Pecos seem intended by nature for the maintenance of countless herds of cattle. Although little protection from Indian depredations has been afforded, and incalculable quantities of stock have and the expense of feeding nothing, cattle and

"A good wagon road, with water at convenient intervals, and offering facilities for travel available at any season of the year, leads from the valley of the Rio Grande at El Paso to the Pecos, near the

32d purallel.

The valley of the Pecos at this parallel of latitude is a level plain of fertile soil, about 2 miles in width, destitute of timber, and bordered on each side by table lands about fifty feet high, which descend into it by very gentle inclinations. The river itself is about forty yards wide, and, with a general direction to the southeast, it traverses its valley from side to side in a very tortuous course. Its bed is a compact limestone, over which it descends with a depth of about two feet, through numberless rapids, and at one point near was enabled to start back to my encampment at the mouth of Delaware creek, over a fall of two El Paso, where I arrived 12th of March, and found and a half feet. The valley is very fertile and my party in excellent health and our animals in susceptible of a high state of cultivation, the uniformity of its surface and the peculiar character of the stream affording unlimited facilities for ir-

Having shown the advantages of the Texas Railway connection with El Paso; and that it would be a profitable investment, independent of the undertaking to the Pacific from the R. Grande I will now endeavor to prove, it is not only feasible but eminently advisable to continue this Railroad to California; and that if the first division will pay, how much more the completion of the entire line will add to the profits of the road through

muddy bottom. The few fording places below the mouth of Delaware creek are very unfavorable at the best season of the year, and during high water are absolutely impracticable. From the accounts of those who have crossed the river by the route from San Antonio to El Paso, and from my own examination of it for one hundred miles be low the 32d parallel, it is quite certain that no point below affords anything like the facilities for fording as does the crossing at the mouth of Delaware creek

"The Llano Estacado along the line of the 32d parallel (as indeed everywhere else) is destitute of wood and water, except at particular points during the rainy season; but a close examination of its geological features-the detailed results of which will be found in their appropriate place-exhibits the practicability of boring artesian wells at as many points on its surface as would be desirable. The peculiarly favorable character of the ground along the route of the 32d parallel, the directness of this route over it, and the difficulties to the north and south would seem to present inducements eminently favorable to the construction of these wells. For thirty miles east of the Pecos, the surface of the plain is hard, and covered with gramma grass; and from thence to a point about thirty miles west of the head of the Colorado, the hard surface alternates with patches of dark red sand covered with a course bunch-grass, about two and a half feet high. Although the sand packs readily into a hard surface, the passage over it for the first time with loaded wagons, and embarrased by the bunches of high grass, was laborious in the

"The Llano Estacado presents no inducements to cultivation under any circumstances; but with a supply of water at reasonable intervals, it would offer, though in a less degree than the table lands to the west, facilities for the raising of stock.

"Of the country between the Llano Estacado and the Valley of the Red River .-- The space between the eastern base of the Staked Plain and the Red river, at the parallel of 34 degrees, is occupied by that portion of northern Texas drained by the tributaries of the Colorado, the Brazos, the Tri-nity and the Red rivers. With rapidly increasing advantages as you proceed eastward from the Llano Estacado, this region is well timbered, well watered, and possessed of a soil of extreme fertiliiy, capable of sustaining a dense population.— The entire country is so gently undulating in its surface, and presents such an abundant and welldistributed supply of wood and water, that it can betraversed in any direction with trains of wagons, and is of so genial a climate that little choice of the seasons is considered desirable in undertaking of the prairie with a prospect of groves, parks, and an expedition through it. A great portion of the timber of the region intersected by the Colorado and its tributaries along this route is the mesquit. which about thirty feet in height and from six to ten inches in diameter, divides about equally with the prairie lands this entire district of country .-The Brazos and its tributaries are better supplied with oak timber of a larger size; the country is more undulating, and the water more abundant. Immense coal beds, of good quality, crop out along the valley of the river, and every natural advantage of soil and climate is offered to the emi-A military post (Fort Belknap) has been established upon this stream, near the 33d paral-lel. But by far the richest and most beautiful dis trict of country I have ever seen, in Texas or elsewhere, is that watered by the Trinity and its tributaries. Occupying east and west a belt of one hundred miles in width, with about equal quanti-

SECOND DIVISION.

FROM THE RIO GRANDE TO THE NAVIGABLE WATERS OF THE PACIFIC, AT THE JUNCTION OF THE GILA AND COLORADO RIVERS.

Frontera near El Paso in lat. 31° 481/2, to th Valle de Sauz, in lat. 32°; 150 miles west

To cross the Rio Grande at Hart's Mill (knows as Molino del Norte) would require a bridge about 400 feet long; with embankments thrown out from the bluffs or hills, for a distance of 100 feet at each end. Should the road be located on the northern most line from the Pecos, which I have described as the Guadaloupe Peak route, it will curve round the southern point of the mountains about five miles off, and by a side cutting gradually descend from the Mesa along a ravine to the bluffs near the mill, at any desired height. The Mesa or table bordering the valley of the Rio Grande, is 373 feet higher than the river; and along wide ravines which are conveniently located on each side, the distance to overcome this by a railroad would be about six miles; making descending gradients for the approaches to the crossing of 62 feet per mile. This would be modified, however, by elevating the bridge, which can be done with little additional expense, the side cutting of the hills being thro a conglomerate of sand and gravel. Stone, convenient for the piers, is close by. The river bottom is rocky and firm, and better suited for bridging than any point I have examined on the Rio Grande. The current is not strong, 11/2 to 2 miles the hour, and no fear of damage from freshets,

drift wood or ice.

The opposite side, however, is Mexican territory, being the head of the Acequia, or irrigating canal of the town of El Paso, and two miles be low the boundary. This may cause the road to follow the river some six miles to Frontera; the last three miles being through a rough canon, or over ridges and deep gullies, requiring considerable cutting, with heavy excavation and embank-

Frontera, three or four miles above the limits of Mexico, is also a favorable point for bridging, and upon our own territory; but the ascent from the valley to the table land is more abrupt. By extending the route along the bluffs, however, to reach the level of the plain, convenient grades may be had. Stone for all masonry necessary may be quarried on the spot, but timber must be bro' from the mountains forty miles distant. This can be hauled fifteen miles to the river and floated down. Cotton wood, the chief growth on the Rio Grande, although of a different character from that of Red river and the east, and durable enough for temporary use in this climate, is not found of sufficient size in the neighborhood for bridge purposes, but will answer very well for cross-ties, and will no doubt be used for such if only temporarily. I am of the opinion, however,

ties of prairie and timber, intersected by numerous clear, fresh streams and countless springs, with a gently undulating surface of prairie and oak openings; it presents the most charming views, as of a country in the highest state of cultivation and you are startled at the summit of each swell forests, with intervening plains of luxuriant grass, over which the eye in vain wanders in search of the white village or the stately house, which seem alone wanting to the scene.

The delusion was so perfect, and the recurrence of these charming views so constant, that every swell of the ground elicited from the party renewed expressions of surprise and admiration.

"It may seem strange that a region suggestive of such florid description should still remain so nearly uninhabited; but it must be remembered that this part of Texas is yet but partially explored, that it is far from the markets, and that it is still invested by bands of hostile Indians. A full this charming region into a reality, of which nature has exhibited so beautiful a presentment."

miles from the terminus of this section, is covered with a similar growth. It may prove more profit-

that bridges of iron will be found most expedient. They may be made in sections and transported on the road, when built to this point, and very little detention need occur in setting them up, if the foundation and abutments are prepared in ad-

The route which I propose from the Rio Grande, for a railway, in about 85 miles west, is crossed by the old copper mine road, leading from Santa Rita del Cobre, near the head of the river Gila, to Jz-nos and Corralitas, towns in Chihuahna, 60 miles south. At the point of intersection is a spring called Ojo Carrasalia, (Carrisal? land of reed grass.) Forty-five miles further, the route crosses La Playa [the beach] or Dry Lake, at copious springs, upon Cook's Road from Santa Fe to San Diego through the Guadaloupe Canon; thence in five miles the summit of the divide between the waters of the Atlantic and Pacific Oceans is reached; the Rio Grande on one side, flowing into the Gulf of Mexico—and the Rio Santa Domingo, or Rio Sauce, [called by various names,] a tributary of the Gila, on the west side.

Six miles, over a gentle slope from the summit, on the same course, this line enters a deep gorge in the range extending from the Guadaloupe Cannon to the Black Mountains of the Gila, and turning northwest, continues nine miles by a more rapid descent along the western slope to the "Valle de Sauz," [Valley of Willows.] This valley has numerous springs of good water, and extends entirely to the Gila, a distance of 60 miles north west, ranging in width from eight to ten miles.

The small stream that takes its rise in the Cienga del Sauz, [willow swamps] where we encamped, ramifies in small veins for some miles, until itforms into a regular channel, and although not generally a running stream, has plenty of water for all purposes necessary to make it a fine grazing region. I have traced this arroya for a great distance, and in 1851 encamped upon it, near the Gila, when proceeding to survey a portion of the United States and Mexican boundary.

The ground along this section alternates from a sandy soil to occasional loam or clay and is al-most the whole way covered with grass, in many places the rich gramma, and in others a coarser or less nutritious kind. There is no permanent drinking water found at the surface immediately adjacent to the line, except the different springs mentioned, where there is abundance, and every appearance of its being had by wells at other

Lakes of alkaline water, which would answer for locomotive use were found.

Fifty-five miles from the Rio Grande, and fifeen miles south of this route, is found a small but south of Janos, in Chihuahua, runs north to the latitude of 31° 35', where it turns suddenly to the east, thence south 18 miles, when it sinks into the ground a mile from Lake Guzman. It has a large and beautiful valley; ten miles at its north bend, with excellent soil, and the largest size alamos or cotton woods growing on its borders. It will, no doubt, become a valuable and desirable grazing district.

At the northwest edge of Lake Guzman, is a delightful warm spring, the water, when cooled, very excellent to the taste. A few steps below where it gushes from the ground, is a wide basin about five feet deep, sufficient for twenty persons at a time to bathe in. It is constantly flowing, and of just the right temperature. Our party enjoyed themselves much during the few days I was detained there, determining its position and exploring the lake and mountains on either side.

There is no timber after leaving the Rio Grande, nearer this line than the Sierra Florida and Burro mountains, 30 or 40 miles north, and on the Rio Guzman, (or Rio San Miguel, as it is called at Janos), until we reach La Playa Springs; where, 10 knowledge of its startling beauty, and of its amazing fertility, and the construction of facilities of communication with a market, will soon convert which on the west, faces the "Valle de Sauz," 10

able, however, to use the timber of the Rio Grande, than haul any distarce by wagons. The cotton wood will, unquer donably, last two years in this

climate after being laid.

From the dge of the Mesa, at the Rio Grande there is or y a rise of 815 feet in 128 miles, making an average grade of 21/2 feet to the mile. Several intermediate undulations and one or two low Zidges, separating depressions in the plain occur, all of which are very gradual. The ascent from the Dry Lake is 268 8-10 feet in five miles, making 53 7-10 feet to the mile, and the maximum gradient necessary on this section. From the summit for five miles west, there is a gradual fall of 11 2-10 feet per mile, when, through the gorge and to the Willow Springs in the Valle de Sauz, a distance of 17 miles, there is a descent of 589 7-10 feet, making a gradient of 84 7-10 feet to the mile.

excavation and embankment will be light, until the approach to La Puerta, leading into the Valle de Sauz, where are black lava and granite rocks scattered about in much confusion, though they offer no obstruction even to the easy transit of wagons. It is by far the best pass in this range that I know of, and having crossed it further north two years previous to my present exploration, I am satisfied, offers great facilities; besides being nearly in a right line west from Frontera, cuts off some forty odd miles from the other route by the town of Mesilla or Donna Anna, south of the Glla to California. La Puerta is hidden from sight, until reaching the divide, when it

suddenly opens to view.

Had that indefatigable officer, Col. Cooke, in his famous march across the continent for the first time with wheel vehicles, known of this pass, he would have been saved the Herculean labor of forcing his way through the impracticable Guadaloupe Canon. Our encampment was three miles off for the night, and as we trailed through it at early suarise next morning, one of the arrieros exclaimed, "La Grande Puerta;" and from its being the first entrance upon the Pacific waters, I named it La Puerta-the door. None of the party, but myself, had previously been in this section of country, and there were no traces of any one having passed through it, until now. The altitude of the summit of the divide is 4,714 feet, and the high est point of La Puerta is 4,657 9-10 feet.

We are now over the great table; and from the highest shelf of the Rocky Mountains in this latitude, have descended one step of the Pacific slope. Between the meridians 104° 50′, and 109° west longitude from Greenwich, lies this elevated Mesa. The eastern borders resting on the Pecos, are the Guadaloupe ond Sacramento mountains, one hundred mile s from the Rio Grande; and western limit, the range (running north from Cooke's Guadaloupe Canon,) in which is the Pass of La

Pnerta.

In this distance of nearly 250 miles, there are no elevations to overcome above those of the two extreme borders; 4,896 feet (summit of Gnada-loupe Pass), and 4,714 feet (summit five miles west of the Ojo del Playa, or Dry Lake of Col. Cooke.) It will be remembered that the highest altitude of the great plateau on this route, is eas of the Rio Bravo del Norte, and in Texas; and this is the greatest elevation above the sea [4,869 feet], that need be ascended to reach the Pacific Coast, if the line to the Rio San Pedro, by way of the Dome Mountain Pass, through the Chiricahua Range, [hereafter described], is determined upon as the most expedient; and thence by Cooke's Road, via Tucson to the Gila.

From the Valle de Sauz to the Santa Cruz Valley -miles.

The lofty granite range of the Chiricahua mountains—through some pass of which the road must follow-forms the entire Western boundary to the Valley of Willows, (Valle de Sauz). It extends in a north-western direction to the parallel of 82° 27' where a deep indentation occurs of several miles wide; when, rising suddenly again, it reaches its greatest eminence, Mount Graham, whose apex is intersected by the meridian of 109° 47' West Longitude; and thence continues on the same ty, or necessity for locking the wheels. This pass grama were frequently met with from half a mile

(Pinal Liano) of the Apaches. It is the most ex-tensive and well defined range between the Rio Grande and junction of the Colorado and Gila

I will here remark, that on the eve of my departure from the Rio Grande, I received a note by express from Major Backus, commanding Fort Fillmore some 45 miles above El Paso, informing me of the arrival of Lieut. Parke from California on the survey of a route for the Pacific railroad. Through this very thoughtful and kind act of Major Backus, I was enabled to see Lieut. Parke, and learn from him the direction of his explorations. He had completed his field work, and very generously turned over to me an excellent cistern barometer, one of two which he had brought with him for the determination of altitudes. This was a valuable accession to my other instruments. It had got a little out of order, from the bottom of the glass tube not having been cut the proper length, being rather long; but through the ingenuity of Capt. George Stoneman, commanding Lieut. Parke's escort, it was repaired, and afterward worked well, giving good results, having tested it with accurately determined points.

Lieut. Parke's route from the Valle de Sauz to El Paso, was partly the road made by us (the Boundary Commission) in 1851, far to the North of the line now explored by me, and some 40 miles longer. From the San Pedro river, his line was the same travelled by us that year. I had, therefore, in addition to my own, the benefit of his examinations of the Pass del Dado, and having also traversed the Chiricahua mountains through the defile in Mt. Graham, in Latitude 32° 27', and satisfied that no other practicable pass for a railway existed, northward, I determined to seek a passage in the opposite direction, which might

prove more favorable.

The camp was moved across the valley to the mouth of a bold and rugged canon, ten miles from the Willow Springs, and facing La Puerta. Abundance of pure water was found by us, and a couple of men whom I sent to explore, returned with the information that a mile above, was a mountain stream fringed with large pines, and the ground carpeted, as it was all around us, with luxuriant grama. This grass, though of the last season's growth, was yet very nutritious, like the best of hay at top, and perfectly green for several inches from the ground.

The view of this canon in the morning, with the reflected sunlight from its deep recesses, and upright walls rising on all sides to a height of several thousand feet, tapering like spires amid the clouds, was majestic and grand. The mouth of the canon is a mile wide, and a line of alamos and willows extending some distance into the plain, marked the course of an arroya filled with large bulders, plainly indicating it in the rainy season to be a bold and rapid torrent.

I noticed in looking across the wide valley to the mountains, on the east side, that it was difficult which way this arroya turned; that there was a slight elevation all the way over, and that it sloped a most imperceptibly to the right and to the lett. I subsequently discovered that this gentle divide separated the waters of the Yagui river, upon which the old ranche of San Bernadino is situated, from those of the Cienaga del Sauz., or Willow Swamps of the Valle de Sauz. The Pagui river empties into the Gulf of California, near the Port of Guaymas, in Sonora.

From the grand canon we followed along the base of the mountains, examining minutely every break that appeared the least encouraging. Fi nally a large opening was discovered, with an arroya whose banks afforded an excellent road, and ascending gradually, we came to a spring having joins the Gila, it spreads into passes, forming a Cotton-woods and a few Sycamores about it.— sort of diminutive delta. Occasional bunches of defile, with a very gentle ascent, we rose to the ders; and in the neighboring ravines higher up to-summit of a fine pass, through which any ordina- wards the old San Pedro Rauch, are found walnu. ry coach could be driven without the least difficul-

course to the great canon of the Gila, where it be-comes blended with the Pine Plain mountains wide valley and plain of the "Playa de los Pimas." Near the summit is a huge red granite rock of gi-gantic dimensions and singular beauty. Our ar-rieros called it "Cerrilto Colorado," the Little Red Mountain. Its lower peak is of conical form for 400 feet from whence it rises with nearly perpendicular sides 300 feet higher, and crowned with a massive dome of symmetrical proportions. Standing isolated and alone, it becomes a prominent landmark, easily recognized from the hills East of the old Rancho of San Bernardino; from which it bears N. 53° W. [Magnetic,] and distant about 20 miles. Opposite and south of the spring are high vertical cliffs of porphyry, resemblig palli-sades. This Pass, which we called the Pass of the Dome, has a summit elevation of 4,826 feet; less by 402 feet than the altitude of Paso del Dado, determined by Lieut. Parke, with the same instrument. It is the lowest of the three Passes through this formidable chain of mountains, along the base of which I have now skirted from the extreme Forth to its Southern terminus. Below the Paso del Dado, it is covered with timber of forest oak and pine, and in the gorges and ravines are sycamore, walnut and cedar.

The arroya which we followed to reach the Dome Mountain Pass, is a tributary of the Rio San Bernadino. To the spring where we made our noon halt it is 40 miles S. W. of La Puerta.— The Chiricahui Mountains are granite, almost entirely, with much feldspar, as in the case of the Grand Canon; which from disintegration has caused its curious serrated appearance. Towards the lower or southern end, there are trap dykes and basalt in irregular and confused directions, showing a powerful volcanic action at some long period back.

Indian signs were plenty and recent; large numbers had lately camped at the springs of the canon, and trails were numerous in every direction. I recognized at once the familiar print of the square-toed mocassin boot of the Apache. Our nbmber was small, but very compact, thirteen all told. I had divided the party for the purpose of running two lines, when we struck Cook's road.— We were to join again at the valley of Santa Cruz. The others numbered the same, well armed and mounted.

Crossing the valley of Playa de los Pimas on a West course we rose to a summit of a break in the low range bordering the San Pedro, 27 miles from the summit of the preceding pass, and almost a right line west. From thence by a broad Indian trail, we descended a valley covered with rich grass, to the Rio San Pedro, 11½ miles. The elevation of the San Pedro pass is 4,731 3-10 feet. The valley of the Playa de Los Pimas is here firm soil, with less sand than where we crossed further north. At the lowest depression of the valley are a number of arroyas, two or three feet across. which in the rainy season are filled with water and flow northerly to the Playa of the Pimas, which latter is somewhat similar to the "Dry Lake" of Col. Cooke. There was no water in the valley this month [April,] unless by digging, which we had no means of doing and no necessity for.— There is a scrubby growth of Mezquite and Oak, where we first entered, but no timber for railroad ties. The soil is of a reddish clay, and generally good, with abundance of grass.

The San Pedro river, where we struck it, in latitude 31° 34′, is a small stream at this stage, about eight feet wide, and shallow; between steep banks 10 feet high and 25 to 50 apart. It is good water here, but further down where much alkaline matter is associated with the earth, it is a little brackish and not so pleasant to the taste. three points that I have crossed it, it is a living stream, with large fish. At its mouth, where it From this point, through a broad and beautiful mezquite and cotton-wood are seen upon its borand ash. Abundant springs and large districts ot

to a mile off. During an encampment of a month in 1851, at what we called the San Pedro springs some miles below our present ford, our animals

fattened and recruited rapidly.

There were large Haciendas and fine cattle ranches in this neighborhood, until a war of extermination was declared by the Apaches against the Mexicans. Remains of the old San Pedro Ranch, are seen at this day; also the "Tres Ala-mos;" and the ruins of the Hacienda of Babacomeri, whose walls and towers are still standing. These were among the wealthiest of Sonora in horses, cattle, sheep, etc.; but it has been many years since. It is a fine grazing region with wild cattle and mustangs constantly seen roving over

The district from San Pedro to Santa Cruz valley, nearly due west from our present crossing [latitude 31° 34',] will be to the Pacific slope what the region of Fort Chadbourne, in Texas, is to the Atlantic. The mountains and hills are covered with splendid timber of the largest size, and for all purposes; and the valleys are full of springs,

and the finest grass.

To Tubac, a town in the valley of Santa Cruz, it is 69 miles. This is by following the San Pedro down about a league, passing over a few insignificant spurs, and ascending the Rio Babacomerie; thence continuing westward by a gradual rise over delightful plains to the divide between that and the Sonoita or Clover Creek, and along the latter, until it loses itself in the porous earth a mile from the Santa Cruz river, and by the broad

valley of that stream to Tubac.

This line I explored the last season, also that by the emigrant wagon route from Cook's road into the town of Santa Cruz; which latter route was found impracticable for a railway, beside being partly in Mexico. The other proved perfectly feasible, although the summit elevation between the Babacomeri and Sonoita Creeks, was greater than we had reached in crossing the mountains east of us. It passes through the most desirable region, with the hills and mountains for forty miles containing inexhaustible quantities of timber. We noticed tall cedar, and oaks of every descrip tion; one kind more interesting than the others being a white oak from twenty to forty feet in the body. Pine and spruce with superior white ash and walnut were found, and the most gigantic cotton-woods, particularly on the Sonoita,

The atmosphere is pure and healthy, and the climateagreeable winter and summer, except in the immediate vicinity of the town of Santa Cruz where there are swamps hemmed in by high mountains. This town is some distance from the line spoken of, and south of the National Bound-The mountains in the neighborhood are filled with minerals, and the precious metals are said to abound. The famous Planchas de Plata and Arrizonia silver mines, which the Count Rousett de Boulbon attempted to take possession of are in this section of country, not many miles below the present limits, and at several of the old ranchos and deserted mining villages which we visited. were found the argentiferous galena ore and

The Sieria Santa Rita runs along to the east of the Santa Cruz valley, and forms a part of this interesting section. It is very high and bold, filled with fertile valleys and flowing rivulets, and covered with a dense growth of timber. I saw much of this district, when here in 1841, on the survey

of the boundary.

As there are two routes explored from the Sauz valley to the valley of Santa Cruz, one which I have described, leading to the town of Tubac, and the other town of Tuscon, I will here remark that the Pass del Dado route is the shortest; but by the Dome mountain pass to the San Pedro river, there will be lower grades, less cutting and lighter work. From thence by the Babacomeri, and Sonoita tributaries, the line would be through far the most interesting country, offering great facili-tiesn i timber and cultivated land, though of high-

Surveys, more in detail, than a mere reconnois-

sance to determine the practicability of the road may show that it is expedient to pursue the line direct to Tuscon through the Del Dado pess, and thence to the Gila, striking it above the Pimas villages. In either case it will not alter the line I recommend from the Rio Grande to the Sauz

With regard to gradients to Tubac, they will average as follows: From La Puerta to lowest depression in the Chiricahua valley, south-west course 26 miles, 27 feet to the mile. To head spring of Dorne mountain pass, 32 miles, 13 feet per mile; thence five miles to summit, 63 feet to the mile; thence to the lowest depression of Playa de les Pimos valley, 27 miles, at eighteen feet per mile. For six miles, grade of 54 feet per mile; to summit of San Pedro mountain pass, 15 per mile for four and a half miles; and to the river bank 11½ miles, at 43 feet per mile. From the San Pedro to Babacomeri rancho, 15½ miles at 25 feet per mile; to Wild Peat spring, 10 miles, at 48 feet per mile; and the summit before reaching the head of the Sonoita, 43 feet per mile for 5½ miles. From summit to Sonoita Springs 4½ miles at 86 feet per mile; down the Sonoita for 151/6 miles, average grade of 61 feet per mile; down same creek for 101 miles at 38 feet per mile; and thence by valley of Santa Cruz to Tubac, 121 miles at 26 feet per mile.

The pass into the valley of the Playa de los Pimas, will require some blasting in hard rock, but only at short intervals cutting off points of the bluffs; and also some excavation in softer rock west of the San Pedro. Again, at the Sonoita Creek, one or two places will require heavy clearing of matted vines and large cotton woods, also a slight cutting through a short canon. Compartively there will be required very little clearing or grubbing; and but one stream to bridge, that

of San Pedro.

(To be continued.)

#### American Institute Fair.

Among the many improvements now on exhibition at the Crystal Palace, is a Power's Boring and Mortising Machine, manufactured by Lane & Bodley, of Cincinnati. The improvement is in the application of the power or movement to the chisel, and mandril, so that the operator has the length of stroke entirely under his control, and can stop or start it either gradually or instantly, as he may

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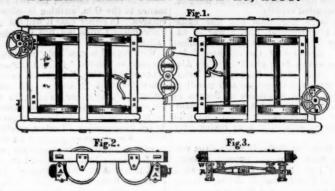
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The improvement consists in attaching to each end of the brake beam metallic sockets, (R) seen in Fig. 3. The shoes (J) are placed in the sockets, and secured therein by means of the face plates (A), which form one side of the sockets. See Figs. 2 and 3. The face plates being secured to the socket by means of screw boits, (w) which pass through the top and bottom of the sockets and face plates. The shoes extend entirely through and out of the socket in opposite directions, and may be adjusted, as they are worn, by unscrewing, and thereby loosening the face plates, by which the shoes may be shoved nearer the wheels. The face plates being secured tightly against the shoes when they are properly adjusted, and thereby firmly securing the shoes in the sockets. Thus when the old shoes are shortened by use, the making of new ones is obvia ed, as it will be seen that by placing the shoes in sockets, they may be used until they are almost wholly worn out; whereas the ordinary shoes, by being permanently attached to the beam, (I) must be repl-ce by new ones, when shortened a trifle by use. The end of the grain of the timber of which the shoes are formed is placed in contact with the wheel thus securing a large amount of friction and obviating all liability to take fire.

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TORONTO, Sept. 21st, 1855.

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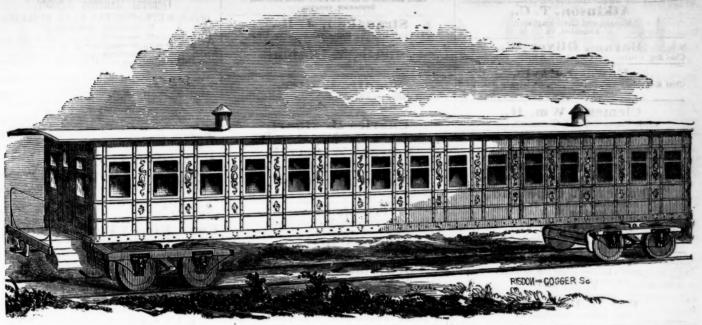
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Edward Boyle, Chief Engineer, 2d, 8d, and 9th Avenue Railro Office 123 Chambers st. ads New York

Clement, Wm. H., Little Miami Railroad, Cincinnati, Ohio.

Cozzens, W, H,, Engineer and Surveyor, St. Louis, Mo.

Alfred W. Craven, Chief Engineer Croton Aqueduct, New York.

Charles W. Copeland, eam Marine and Railway En 64 Broadway, New York

Davidson, M.O.,

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61 Exchange Place, Baltimore, Md.

C. Floyd-Jones., Division Engineer 3d and 12th Division Illinois Central Railroad.

Vandalia, 10.

Gay, Edward F., Civil Engineer, Philadelphia, Pa.

Gilbert, Wm. B., Syracuse and Binghamton Railroad, Syracuse, N.Y.

Gzowski, Mr., St. Lawrence and Atlantic Railroad, Toronto, Canada

Grant, James H., Nashville and Chattanooga R. R., Nicojack, Tenn

Theodore D. Judah, Chief Engineer, Sacramento Valley Railroad, Sacramento, Cal.

Martin Green, Chief Engineer and Superintendent, Mississippi Central R. R., Holly Springs, Miss.

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Holcomb, F. P. Chie Eng. Augusta and Waynesboro, and Savannah ar cola Railroads, Marthasville, Macon Co., Ga.

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Samuel Mc Elroy, Assistant Engineer, New York Navy Yard.

Mills, John B., Civil Engineer, Sackets Harbor and Saratoga R. R., 24 William St., N. Y.

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W. Milnor Roberts, ngineer Alleghany Valley Railroad, Pittsburgh, Pa.

Roberts, Solomon W., Ohio and Pennsylvania Railroad, Pittsburgh, Pa.

Sanford, C. O., South Side Railroad, Virginia.

Charles L. Schlatter, lief Engineer Brunswick and Florida Railroad, Brunswick, Georgia.

Straughan, J. R., Ohio and Indiana Railroad, Bucyrus, Ohio.

Steele, J. Dutton, Pottstown, Pa.

Shanly, Walter, Chief Engineer Bytown and Prescott Railway, Prescott, Canada.

> Charles B. Stuart. ng Engineer, 23 William str., New York.

Edward W. Serrell, r, 23 Willia

Trautwine, John C., Civil Engineer and Architect, Philadelphia.

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Alabama and Tennessee Railroad, Selma, Ala.

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